

**INTERIM ORDER
2ND QUARTER 2011 PROGRESS
REPORT**



ESTATE OF CHEMETCO, INC.
HARTFORD, ILLINOIS

July 22, 2011

ESTATE OF CHEMETCO
3754 CHEMETCO LANE
HARTFORD, ILLINOIS 62048

TABLE OF CONTENTS

SECTION 1	COMPLIANCE ACTIONS.....	4
1.1	Pot Slag Work Plan for Sales of Facility Assets	4
1.1.1	Pot Slag Shipments	4
1.1.2	Pot Slag Shipments Demobilization and Decontamination.....	4
1.1.3	Pot Slag Shipments - Waste Generation.....	4
1.2	Copper Furnace Cleanup Solids Work Plan for Sales of Facility Assets	4
1.2.1	Copper Furnace Cleanup Solids Shipments	4
1.2.2	Copper Furnace Cleanup Solids Shipments Demobe and Decon	4
1.2.3	Copper Furnace Cleanup Solids - Waste Generation.....	5
1.3	Scrap Metal Work Plan for Sales of Facility Assets.....	5
1.3.1	Scrap Metal Shipments.....	5
1.3.2	Scrap Metal Demobilization and Decontamination	6
1.3.3	Scrap Metal - Waste Generation	6
1.4	Demolition Work Plan for Sales of Facility Assets.....	7
1.4.1	Demolition Work Scrap Metal Shipments	7
1.4.2	Demolition Work Scrap Metal Demobe and Decon	7
1.4.3	Demolition Work Scrap Metal - Waste Generation.....	8
1.5	Work Plan for RCRA Closures	8
1.5.1	Brick Shop Container Storage Closure Status	8
1.5.2	AAF Decontamination Area and Sump Closure Status	8
1.5.3	Black Acid Tank Closure Status.....	8
1.5.4	Foundry Building, AAF System, and Tank House (Demo Plan) Status	9
1.5.5	Furnace Removal Work Plan Status	9
1.6	Waste Management.....	10
1.6.1	Hazardous Waste.....	10
1.6.2	Hazardous Waste Container – Awaiting Disposal	10
1.6.3	Hazardous Waste Disposal	10
1.6.4	Non-Hazardous Waste Disposal	11

TABLE OF CONTENTS

1.7	Operation and Maintenance.....	11
1.7.1	Operation and Maintenance Plans.....	11
1.7.2	Fugitive Emissions Plan	11
1.7.3	Stormwater Management Plan.....	11
1.7.4	Groundwater Monitoring Plan.....	12
1.7.5	Security Plan	12
SECTION 2	SUMMARIES OF RESULTS	13
2.1	Sales Material Shipping Data	13
2.2	Stormwater Discharge Data.....	13
SECTION 3	SUBMITTED AND COMPLETED DELIVERABLES	14
3.1	Submitted Work Plan and/or Deliverables.....	14
3.1.1	Interim Order 1 st Quarter Progress Report.....	14
3.1.2	Demolition Work Plan.....	14
3.1.3	Scrubber Sludge Work Plan.....	14
3.2	Completed Work Plan and/or Deliverables.....	15
3.2.1	Cupro Work Plan.....	15
3.2.2	Caustic Tank Work Plan.....	15
3.2.3	Other Deliverables.....	15
SECTION 4	SCHEDULED ACTIONS FOR 3RD QUARTER 2011	16
4.1	Shipments Sales of Facility Assets	16
4.1.1	Pot Slag Shipments.....	16
4.1.2	Copper Furnace Cleanup Solids Shipments	16
4.1.3	Scrubber Sludge Work Plan.....	16
4.2	Foundry Building, AAF System, and Tank House (Demo Plan)	16
4.3	Furnace Removal Work Plan	17
4.4	Pilot Plant Treatability Study	17
SECTION 5	COMPLETED ACTION ITEMS	19
5.1	Shipments and Sales of Facility Assets.....	19
5.1.1	Cupro Shipments.....	19
5.1.2	Pot Slag Shipments.....	19
5.1.3	Copper Furnace Cleanup Solids Shipments	19
5.1.4	Caustic Tank	19
5.2	Work Plan for RCRA Closures	19
5.2.1	Brick Shop Container Storage Area	19

TABLE OF CONTENTS

5.2.2	AAF Decontamination Area and Sump.....	20
5.2.3	Black Acid Tank	20
SECTION 6	MODIFICATIONS.....	21
6.1	Work Plan Modifications	21
6.1.1	Pot Slag Work Plan	21
6.1.2	Copper Furnace Cleanup Solids Work Plan	21
6.1.3	AAF Decontamination Area and Sump.....	21
6.1.4	Black Acid Tank	21
6.1.5	Scrubber Sludge Work Plan.....	21
6.2	Schedule Modifications.....	22
6.2.1	Pot Slag Work Plan	22
6.2.2	Copper Furnace Cleanup Solids Work Plan	22
6.2.3	Pilot Plant Treatability Study.....	22
6.2.4	Demolition Work Plan.....	23

Figure

Figure 1 Demolition Areas

List of Appendices

Appendix A Copper Furnace Solids Shipments

Table 1 Summary of Copper Furnace Solids Shipments

Appendix B Scrap Metal Shipments

Table 2 Summary of Historical Scrap Metal Shipments

Table 3 Summary of Scrap Metal Shipments

Appendix C Hazardous Waste Manifests

Table 4 Summary of historical Hazardous Waste Disposal

Table 5 Summary of historical Non-Hazardous Solids, Liquid and Special Waste Disposal

Appendix D NPDES eDMR forms and Analytical Results

Table 6 Summary of NPDES Stormwater Data

Appendix E Bi-Weekly, Monthly Security Action Item Reports

SECTION ONE

Compliance Actions

1.0 Actions Taken Toward Achieving Compliance with the Interim Order in 2nd Quarter 2011:

1.1 Pot Slag Work Plan for Sales of Facility Assets

1.1.1 Pot Slag Shipments

No shipments of Pot Slag were made during the 2nd Quarter 2011.

1.1.2 Pot Slag Shipments - Demobilization and Decontamination

No demobilization and decontamination activities associated with Pot Slag shipments occurred during the 2nd Quarter 2011.

1.1.3 Pot Slag Shipments - Waste Generation

Solid Waste: No Pot Slag waste was generated during the 2nd Quarter 2011.

Decon Debris: No Decon and/or Debris associated with Pot Slag shipments were generated during the 2nd Quarter 2011.

Wastewaters/Sludges: No wastewater/sludges associated with the management of Pot Slag were generated during the 2nd Quarter 2011.

1.2 Copper Furnace Cleanup Solids Work Plan for Sales of Facility Assets

1.2.1 Copper Furnace Cleanup Solids Shipments

During the 2nd Quarter 2011, the Estate of Chemetco sold approximately 160 metric tons (MT) of Copper Furnace Cleanup Solids (CFCS) to Aurubis AG in Lunen, Germany. The Estate loaded eight 20 ft sea containers between June 6 and June 14, 2011. **Table 1** presents a summary of the CFCS that were sold and shipped during the 2nd Quarter 2011. **Table 1** is included in **Appendix A**.

1.2.2 Copper Furnace Cleanup Solids Shipments - Demobilization and Decontamination

The Estate decontaminated the equipment and tools used for loading the Copper Furnace Solids during the 2nd Quarter 2011. Upon completion of decontamination, the rented equipment was picked up by the equipment vendor.

SECTION ONE

Compliance Actions

1.2.3 Copper Furnace Cleanup Solids Shipments - Waste Generation

Solid Waste: Small quantities of solid wastes were generated during the 2nd Quarter 2011. The solids were determined by generator knowledge to be “hazardous waste (D006, D008).” These wastes were temporarily placed in satellite container (i.e. steel hopper) that is currently located adjacent to the west loading dock of the Dome building. The contents will be transferred to a 40 cubic yard (CY) roll off during the 3rd Quarter 2011 for future disposal.

Decon Debris: Small quantities of Decon and/or Debris associated with Copper Furnace Cleanup Solids Shipments were generated during the 2nd Quarter 2011. The decon debris were determined by generator knowledge to be “hazardous waste (D006, D008).” These wastes were temporarily placed in satellite container (i.e. steel hopper) that is currently located adjacent to the west loading dock of the Dome building. The contents will be transferred to a 40 CY roll off during the 3rd Quarter 2011 for future disposal.

Wastewaters/Sludges: Small quantities of wastewater/sludges associated with the management of Copper Furnace Cleanup Solids were generated during the 2nd Quarter 2011. The Sludges were determined by generator knowledge to be “hazardous waste (D006, D008).” These wastes were transferred to the frac tank adjacent to the Tank House building for future disposal.

1.3 Scrap Metal Work Plan for Sales of Facility Assets

1.3.1 Scrap Metal Shipments

As previously stated in the 3rd Qtr 2010 Report, the Scrap Metal Work Plan that was submitted to the Illinois Environmental Protection Agency (IEPA) on September 24, 2009 for approval, but was not implemented as submitted. Instead, all scrap metal shipments were made under the approved Demolition Work Plan and are described in Section 1.5.1. However, during the 1st Qtr, 2011, the Estate spoke with IEPA to confirm work plan approval so that scrap metals not associated with the demolition activities could be sold and shipped separately.

During the 2nd Qtr 2011, the Estate resumed negotiations with existing buyers for the sale of Scrap Metals. This included the sale of electric motors, crane parts, carbon steel ladles associated with the foundry, and other miscellaneous steel material. The following materials were sold during the 2nd Quarter 2011.

SECTION ONE

Compliance Actions

- On April 11, 2011, the Estate sold three large carbon steel ladles to Harsco Metals out of Birmingham, Alabama.
- On May 4 and May 7, 2011, the Estate sold crane parts, electric motors, control cabinets, resistor brakes, and other miscellaneous parts to Casey Equipment out of Pittsburgh, Pennsylvania.
- On April 11, 2011, and June 15, 2011, the Estate sold a sand storage tank and two clarifier steel units were sold to Tank Trailer Cleaning (TTC) out of St Louis. These items were sold as salvage material for use at their facility,

Table 2 presents a summary of historical scrap metal shipments to date. **Table 3** presents a summary of all scrap metal material shipped during the 2nd Quarter 2011. **Tables 2 and 3** are included in **Appendix B**.

1.3.2 Scrap Metals - Demobilization and Decontamination

The Estate decontaminated the equipment and tools used for loading the Scrap Metals during the 2nd Quarter 2011. Upon completion of decontamination, the rented equipment was picked up by the equipment vendor.

1.3.3 Scrap Metals Shipments – Waste Generation

Solid Waste: Small quantities of Solid Wastes were generated in the 2nd Quarter 2011 under the Scrap Metal Work Plan. The decon debris were determined by generator knowledge to be “hazardous waste (D006, D008).” These wastes were placed in a 55-gallon open top steel drum and placed in the 90-day temporary area for future disposal.

Decon Debris: Small quantities Decon and/or Debris associated with the shipments of scrap metals were generated in the 2nd Quarter 2011 under the Scrap Metal Work Plan. The decon debris were determined by generator knowledge to be “hazardous waste (D006, D008).” These wastes were placed in a 55-gallon open top steel drum and placed in the 90-day temporary area for future disposal.

Wastewaters/Sludges: Small quantities of wastewater/sludges associated with the management of Scrap Metals were generated in the 2nd Quarter 2011 under the Scrap Metal Work Plan. The sludges were determined by generator knowledge to be

SECTION ONE

Compliance Actions

“hazardous waste (D006, D008).” These wastes were placed in the frac tank adjacent to the Tank House building for future disposal.

Although no demolition activities occurred during the 2nd Qtr 2011, all other decontamination and waste generation associated with demolition activities under the approved Demolition Work Plan are normally described in Section 1.5.1.

1.4 Demolition Work Plan for Sales of Facility Assets

On June 24, 2010, the Demolition Work Plan (Demo Plan) was approved by IEPA. American Integrated Services (AIS) is the demolition subcontractor for Industrial Asset Disposition (IAD) and as such, is performing all the demolition activities. Refer to **Figure 1** for location of the demolition areas.

As previously indicated in the 1st Quarter 2011 Report, AIS informed the agencies their intention to temporarily shut down demolition activities due to the extreme cold weather conditions. Demolitions activities were shutdown through the end of the 2nd Qtr 2011.

On June 22, 2011 a Kick-Off Meeting was held between the IEPA, USEPA, AIS, the Estate, and Paradigm Minerals (Paradigm) on site to announce that demolition activities were to resume during the 3rd Qtr, 2011. AIS estimated that it will take approximately 2 to 3 months to complete the work. IEPA requested a revised schedule for the completion of the demolition activities and remaining work. The revised schedule will be included in the 3rd Qtr 2011 Progress Report.

1.4.1 Demolition Work Scrap Metal Shipments

No Scrap metal shipments associated with demolition activities were shipped out during the 2nd Quarter 2011.

1.4.2 Demolition Work Scrap Metals - Demobilization and Decontamination

No demobilization and decontamination activities associated with Demolition Scrap Metal shipments occurred during the 2nd Quarter 2011.

SECTION ONE

Compliance Actions

1.4.3 Demolition Work Scrap Metals Shipments – Waste Generation

Solid Waste: No solid wastes associated with the demolition activities were generated during the 2nd Quarter 2011.

Decon Debris: No Decon Debris associated with the demolition activities such as removal of scrap metals was generated during the 2nd Quarter 2011.

Wastewaters/Sludges: No Wastewater/sludges associated with the management of metal scraps shipments were generated during the 2nd Quarter 2011.

1.5 Work Plans for RCRA Closures

1.5.1 Brick Shop Container Storage Area Closure Status

A “No Further Action” (NFA) letter was issued by IEPA on March 3, 2010. As such, no further action is required, and closure of the Brick Shop Container Storage Area is considered complete.

1.5.2 AAF Decontamination Area and Sump Closure Status

On June 24, 2010, a Demolition Work Plan (Demo Plan) was approved by IEPA.

The AAF SWMU closure work was incorporated into the Demo Plan and closure work will be performed under the Demo Plan. Decontamination of the AAF area and sump closure was projected to be performed during the 3rd and 4th Quarter 2010. The sump area was pressured washed with water from the deep well, and the discharge pipe sealed with concrete. Because demolition activities were shut down by AIS during the 1st and 2nd Qtr 2011, final demolition activities have been projected back. AIS indicated that demolition activities will during the 3rd and be completed by the 4th Qtr 2011. The AAF Decontamination Area and Sump Area Closure Report will be completed within 60 days after completion of demolition activities.

1.5.3 Black Acid Tank Closure Status

The Black Acid Tank (located inside the southeast corner of the Tank House) is considered a RCRA Solid Waste Management Unit (SWMU).

As such, the tank closure should follow RCRA closure guidelines. The Black Acid Tank closure was incorporated into the Demo Plan and the work was performed under the Demo Plan. During the 3rd and 4th Quarter 2010, the Black Acid Tank was removed from the Tank House cut in half, and moved east of the Tank House

SECTION ONE

Compliance Actions

Building where it waits for disposal. The area within the Black Acid Tank was pressured washed and water was allowed to evaporate, remaining water was contained in the frac tank. Because demolition activities were shut down by AIS during the 1st and 2nd Qtr 2011, final demolition activities have been projected back. AIS indicated that demolition activities will during the 3rd and be completed by the 4th Qtr 2011. The Black Acid Tank Closure Report will be completed within 60 days after completion of demolition activities.

1.5.4 Foundry Building, AAF System, and Tank House Demolition Work Plan (Demo Plan) Status

On June 24, 2010, the Demo Plan was approved by IEPA. The demolition work activities began in June during the 3rd Quarter 2010. To date, all of the interior equipment and material inside the Tank House has been removed leaving only the building frame and ceiling and walls, and the tank house building has been deconned. The spent water was allowed to evaporate and/or placed in the frac tank. The interior demolition of the Tank House has been nearly completed. The Black Acid Tank that was located in the Tank House has been cut in half and will require disposal. The majority of the AAF (approximate 80%-90%) area has been completed. In addition five above ground storage tank (AST) are yet to be removed. One AST is located within the AAF and contains Sodium Hydroxide (NaOH); three ASTs are located adjacent to polishing pits, and one AST is located west of the Tank House. The fines recovered from the AAF area and parts of the Foundry Building have been moved to the fines building for possible future use. A portion of the siding from the east wall and electrical conduits has been removed from the Foundry Building. The Estate stripped and removed some of the electrical copper wire from the demolished areas in the Foundry Building in order to limit trespassers searching for copper wire and reduce the potential risk for injury. No Demolition activities occurred between January 19, 2011 of the 1st Qtr 2011 and 2nd Qtr 2011. Demolition activities are expected to resume in July during the 3rd Qtr 2011.

1.5.5 Furnace Removal Work Plan

Negotiations between the Estate and Metallo appear to have reached an impasse; as such the Estate is seeking other potential buyers for the sale of the 3-TBRC furnaces located inside the Foundry Building. In accordance to the approved Demo Plan, the

SECTION ONE

Compliance Actions

Furnaces will not be removed until all of the buildings in the Demo Plan have been removed and decontaminated. It is possible that if no agreement is reached between the Estate and Metallo, the furnaces may be taken down and sold as scrap metal. Any changes on the status of the furnaces will be conveyed to the IEPA and USEPA in a timely manner

1.6 Waste Management

1.6.1 Hazardous Waste

Satellite Containers: At the end of the 2nd Quarter 2011 the Estate had three satellite containers on site:

- One satellite container is located inside the maintenance shop and consists of personal protective equipment (PPE) (i.e. Tyvek, gloves, etc.) worn during decon activities.
- Two satellite containers are located along the west loading dock of the dome building and contain miscellaneous debris, plastic, and wood and paper. The contents will be placed in a 40 CY roll off that will be used during the screening of the Scrubber Sludge mixed with fines prior to loading.

1.6.2 Hazardous Waste Containers – Awaiting Disposal

During the 2nd Qtr 2011, the Estate generated the following containers of hazardous waste. The containers were properly labeled and awaiting disposal.

- One 55-gallon open top steel drum of “Hazardous Waste, Solids, NOS (PPE, - D006, D008). The drum contains PPE, decon pad from the deconning activities associated with the scrap metal and copper furnace solids shipments. The drum will be disposed during the 3rd Qtr 2011.

1.6.3 Hazardous Waste Disposal

The Estate did not dispose of any Hazardous Waste during the 2nd Qtr 2011.

A summary of all hazardous waste disposals is presented in **Table 4** located in **Appendix C**.

SECTION ONE

Compliance Actions

1.6.4 Disposal of Non-Hazardous Waste(s)

Non-hazardous waste (ex. empty paper and administrative office, bathrooms and lunch room) was generated during the 2nd Quarter 2011. These wastes were disposed in the site's municipal waste dumpster serviced by Robert Sanders Waste Systems, Inc. at the Roxanna Landfill.

The Estate did not dispose of any Non-Hazardous Waste associated with demolition activities during the 2nd Qtr 2011.

A summary of all Non-Hazardous waste disposals is presented in **Table 5** located in **Appendix C**.

1.7 Operation and Maintenance Status

1.7.1 Operations and Maintenance Plans Status

On October 24, 2008, the Estate submitted to the State of Illinois the following required Operation and Maintenance Plans that are currently awaiting approval by IEPA:

- (1) Fugitive Emissions Plan
- (2) Stormwater Management Plan
- (3) Groundwater Monitoring Plan
- (4) Security Plan

1.7.2 Fugitive Emissions Plan

There was no evidence of reportable fugitive emissions during the 2nd Quarter 2011 on the Chemetco site.

1.7.3. Stormwater Management Plan

As required by the Estate's NPDES Permit IL0025747 Outfall #005, copies of the electronically Discharge Monitoring Reports and analytical results for the discharge of stormwater from the Stormwater Basin for the months of April, May, and June 2011. A summary of the 2nd Quarter 2011 analytical results are shown in **Table 6** located in **Appendix D**.

SECTION ONE

Compliance Actions

1.7.4 Groundwater Monitoring Plan

The Estate does not perform any groundwater monitoring.

1.7.5 Security Plan

On May 14, 2010, the Estate and IAD secured the services of Securitas to provide security for the site during after working hours (i.e. 7:00 pm to 3:00 am Monday thru Sunday). In addition, at the request of USEPA, the Estate submitted a "Security Plan and Action Items" on May 25, 2010. The objective of the Security Plan was to address areas of security deficiency, and securing areas of the site where trespassers could gain access to the interior of the site and conceivably pose a potential risk to human health.

Nearly all of the Action Items were completed during the 4th Quarter, as such, the Estate requested, and USEPA agreed to reduce the weekly submittals to bi-weekly. During the 1st Qtr 2011, the Estate requested and USEPA conditionally agreed to reduce the bi-weekly submittals to monthly submittals starting the May 27, 2011. The initial submittal included a project forecast to describe when site will be restored to existing condition prior to demolition activities. A revised proposed schedule will be included in the 3rd Qtr 2011 Progress Report once demolition activities and estimated time to completion is known. Copies of the 2nd Qtr 2011 security reports are included in **Appendix E**.

SECTION TWO

Summary of Results

2.0 Summary of Results of Sampling, Tests, and Other Data Received in 2nd Quarter 2011:

2.1 Sales Materials Shipping Data. Copper Furnace Cleanup Solids (CFCS) and scrap metal not associated with demolition activities were sold and shipped during the 2nd Qtr 2011. Sale and shipping activities are described in Section 1. Summary tables of shipping data generated during the 2nd Quarter 2011 are included in **Appendix A** and **Appendix B**.

2.2 Stormwater Release Data

The Estate of Chemetco manages stormwater through the NPDES Permit IL0025747 Outfall #005 (Stormwater Retention Basin). Surface water samples are collected monthly. Analytical data of eDMR (Electronic Discharge Monitoring Report) are electronically submitted to IEPA via state's website. Hard copies of eDMR forms are included in **Appendix D**.

During the 2nd Quarter 2011, all parameters and constituents were below IEPA Effluent Water Quality Standards, except for Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), pH, and Lead. COD results for April, May, and June were at or below the IEPA Effluent Water Quality Standards. The pH result for April and June was below the permit pH range of 6-9, and above the permit pH range of 6-9 for May. TSS results for April and May exceeded IEPA Effluent Water Quality Standards. Lead results for April exceeded IEPA Effluent Water Quality Standards. It appears that the exceedance of Lead can be attributed to the significant amount of rain that was received during the month of April as evidence of high discharge flow (approximately 13.5 gallons per minute) at the Outfall 005 of the retention basin. It should be noted that Lead concentrations returned within historical concentrations in May and June.

Table 6 presents a summary of 2nd Quarter, 2011 analytical results and is included in **Appendix D**.

SECTION THREE

Submitted and Completed Deliverables

3.0 Identify Submitted and Completed Work Plans and Other Deliverables Required by Interim Order in 2nd Quarter 2011

3.1 The Estate submitted Work Plans and Other Deliverables as follows:

3.1.1 Interim Order 1st Quarter 2010 Progress Report

The Estate submitted the 1st Quarter 2010 Progress Report, Interim Order (Civil Case No. 00-670-DRH, 00-677-DRH (consolidated)), dated May 6, 2011 to Erin Rednour, IEPA and James Morgan, Attorney General's office as required by the Interim Order.

3.1.2 Demolition Work Plan

The Demolition Work Plan was submitted to IEPA on May 6, 2010. The Demolition Work Plan was approved by IEPA on June 24, 2010. The demolition of the Tank House building has been nearly completed. The cut Black Acid Tank is currently located near the east of the Tank House waiting for disposal. The AAF Area has been approximately (80% - 90%) completed. Most of the east wall of the Foundry Building has been removed, except the north eastern portion because it requires asbestos abatement.

3.1.3 Scrubber Sludge Work Plan

On October 14, 2010, The Estate of Chemetco and Paradigm Minerals submitted a Work Plan to IEPA requesting approval to sell Scrubber Sludge Material that is currently stored in the DIS building and Receiving Building. The Estate received deficiency comments from IEPA on November 4, 2010. The Estate addressed the comments and a revised Scrubber Sludge Work Plan was submitted to IEPA on November 24, 2010. The Estate and Paradigm received conditional approval from IEPA on February 9, 2011. During the 2nd Qtr 2011, the Estate and Paradigm negotiated the sale of the Scrubber Sludge mixed with fines (approximately 3,000 to 3,500 mt) to H&H Metals out of New York. On April 29, 2011 the Estate submitted Notification of Winning Bidder and Signed Contract to IEPA. On May 10, 2011, the Estate met on site with IEPA to discuss proposed changes to approved work plan. On the same day, the Estate submitted electronically via email an Addendum to the Work

SECTION THREE

Completed Deliverables

Plan describing proposed changes in order to properly load the material in sea containers. On June 2, 2011, the Estate received addendum approval to sell approximately 3000-3500 dry mt of Scrubber Sludge mixed with fines to H&H Metals, for Jiangxi Chenfei Cooper Industry Co, Ltd located in China.

3.2 Completed Work Plans and Other Deliverables

3.2.1 Cupro Work Plan

The Cupro Work Plan was completed in the 2nd and 3rd Quarter 2010. All of the Cupro Material has been sold, and no further shipment of saleable Cupro material is expected. COMPLETED.

3.2.2 Caustic Tank Work Plan

The Caustic Tank Work Plan was completed in the 4th Qtr 2010. The Caustic Tanks was sold to Tank Trailer Cleaning (TTC) and removed from the Site and no additional work associated with the Caustic Tank is expected. COMPLETED.

3.2.2 Other Deliverables - Contained herein are copies of:

1. Summary of Copper Furnace Solid shipments during 2nd Quarter 2011, **Table 1** located in **Appendix A**.
 2. Summary of Scrap Metal shipments during 2nd Quarter 2011, **Tables 2** and **3** located in **Appendix B**.
 3. Summary of historical Hazardous Wastes and Non-Hazardous disposal during the 2nd Quarter 2011, **Tables 4** and **5** located in **Appendix C**.
 4. Stormwater Discharge Monitoring Reports, and **Table 6** located in **Appendix D**.
 5. Bi-Weekly and Monthly Security Plan and Action Items Reports, located in **Appendix E**.
-

SECTION FOUR

Scheduled Actions for 3rd Qtr 2011

4.0 Describe Actions Scheduled for 3rd Quarter 2011 and Information Related to Progress.

4.1 Shipments Sales of Facility Assets

4.1.1 Pot Slag Shipments

Approximately less than 40 mt remain on site. The Estate expects to sell and ship the remaining Pot Slag Material in the foreseeable future.

4.1.2 Copper Furnace Cleanup Solids Shipments

Approximately 160 mt of saleable Copper Furnace Cleanup Solids (CFCS) was sold to Arubis during the 2nd Qtr 2011 and approximately 40-60 mt of CFCS remain on site. The Estate expects to sell and ship the remaining CFCS to Arubis during the 3rd Qtr 2011.

4.1.3 Scrubber Sludge Shipments

The Estate submitted a Scrubber Sludge Work Plan on November 24, 2010 to IEPA for approval of sale of Scrubber Sludge stored in the DIS building and Receiving building. IEPA conditionally approved the Scrubber Sludge Work Plan on February 9, 2011. The Estate negotiated the sale of the SCM with potential buyers and is expected to begin shipping during the 3rd Qtr 2011. During the 2nd Qtr 2011, a notification letter was sent to IEPA and documents identifying the buyer, name and place of final destination of material will be submitted to IEPA for approval as required under the conditionally approved letter dated February 9, 2011. On June 2, 2011, the Estate received addendum approval to sell approximately 3,000-3,500 dry mt of Scrubber Sludge mixed with fines to H&H Metals, for Jiangxi Chenfei Cooper Industry Co, Ltd located in China.

4.2 Foundry Building, AAF System, and Tank House Demolition Work Plan (Demo Plan)

The Demolition Plan was approved by IEPA on June 24, 2010. Preliminary site activities began during June of the 3rd Quarter 2010. Demolition activities include decontamination and demolition of the Foundry Building, the AAF System, and the

SECTION FOUR

Scheduled Actions for 3rd Qtr 2011

interior of the east end of the Tank House. The demolition work started in June of 3rd Quarter 2010.

On January 19, 2011 of the 2nd Qtr 2011, AIS informed IEPA and USEPA that demolition activities would be shut down during the winter months due to inclement weather. Demolitions activities were shutdown through the end of the 2nd Qtr 2011.

On June 22, 2011 a Kick-Off Meeting was held between the IEPA, USEPA, AIS, the Estate, and Paradigm Minerals (Paradigm) on site to announce that demolition activities were expected to resume during the 3rd Qtr, 2011. AIS estimated that it will take approximately 2 to 3 months to complete the work. IEPA requested a revised schedule for the completion of the demolition activities and remaining work. The revised schedule will be included in the 3rd Qtr 2011 Progress Report.

4.3 Furnace Removal Work Plan

Negotiations between the Estate and Metallo appear to have reached an impasse; as such the Estate is seeking other potential buyers for the sale of the 3-TBRC furnaces located inside the Foundry Building. In accordance to the approved Demo Plan, the Furnaces will not be removed until all of the buildings in the Demo Plan have been removed and decontaminated. It is possible that if no agreement is reached between the Estate and Metallo, the furnaces may be taken down and sold as scrap metal. Any changes on the status of the furnaces will be conveyed to the IEPA and USEPA in a timely manner.

4.4 Pilot Plant Treatability Study

On January 8, 2010, AMEC Geomatrix, on behalf of IAD submitted to, IEPA a memo (Subject: Chemetco – Pilot Plant Treatability Study Processing of Metal Bearing Materials). IEPA, approved with “conditions.” the study in a letter to IAD dated February 5, 2010.

The pilot plant continues to operate on a trial run basis. Bi-weekly Project Status Reports were submitted to IEPA and USEPA by IAD, and AMEC Geomatrix on behalf of IAD. On December 13, 2010, Bi-weekly Project Status Reports were submitted only by IAD. During the 1st Qtr 2011, Paradigm submitted to IEPA and USEPA a Work Plan titled “Scrubber Sludge and Slag Work Plan” dated March 4, 2011. Paradigm continues to

SECTION FOUR

Scheduled Actions for 3rd Qtr 2011

work on additional deliverables. During the June 22, 2011 Demolition Activities Kick-off Meeting, Paradigm personnel, informed the IEPA that an Interim Pilot Plant Report could be submitted to IEPA and USEPA during the 3rd Qtr 2011.

SECTION FIVE

Completed Action Items

5.0 Percentage of Completion, Delays, and Mitigation

5.1 Shipments and Sales of Facility Assets

5.1.1 Cupro Shipments

Shipment of all saleable Cupro is 100% complete. The Estate shipped approximately 2,242 mt of Cupro. COMPLETED.

5.1.2 Pot Slag Shipments

Approximately 40-80 mt of Pot Slag remains on site and will be sold in the foreseeable future, and prior to the completion of the demolition activities.

5.1.3 Copper Furnace Cleanup Solids Shipments

During the 2nd Quarter 2011, approximately 160 mt of Copper Furnace Cleanup Solids were sold and shipped to Aurubis AG. To date, approximately 387 mt of CFCS has been sold and shipped to various vendors. The Estate expects to sell the remaining 40-60 mt of CFCS to Aurubis AG during the 3rd Qtr 2011.

5.1.4 Caustic Tank Work Plan

TTC removed the NaOH and the Poly AST during the 4th Quarter 2010 in accordance with the approved work plan. The tank was properly deconned by TTC using hot clean water brought from their facility, after deconning and removal of the water, the AST was loaded and transported to their facility in East St. Louis for their use. The Caustic Tank was removed and the work is deemed completed.

5.2 Work Plans for RCRA Closures

5.2.1 Brick Shop Container Storage Area

100% complete and requires No Further Action and is considered CLOSED.

SECTION FIVE

Completed Action items

5.2.2 AAF Decontamination Area and Sump

The work has been incorporated into the approved Demolition Plan and will be completed as part of the demo work. A closure report will be submitted within 60 days of completion of the demo work.

5.2.3 Black Acid Tank

The work has been incorporated into the approved Demolition Plan and will be completed as part of the demo work. A closure report will be submitted within 60 days of completion of the demo work.

SECTION SIX

Modifications

6.0 Modifications to Work Plans or Schedules Proposed or Approved by IEPA:

6.1 Work Plan Modifications

6.1.1 Pot Slag Work Plan

Notification and/or revisions to the current Pot Slag Work Plan will be submitted to IEPA and USEPA concerning future selling of the remaining Pot Slag on Site.

6.1.2 Copper Furnace Cleanup Solids Work Plan

An addendum to the Copper Furnace Cleanup Solids Work Plan was made during the 2nd Quarter 2011 to load the CFCS material from a different location as originally described. The addendum described using the west loading dock adjacent to the dome building because a portable loading ramp was not available.

6.1.3 AAF Decontamination Area and Sump

RCRA Closure Plan has been incorporated into the Demo Plan. A RCRA Closure Report will be submitted within 60 days of completion of the demo work.

6.1.4 Black Acid Tank

RCRA Closure Plan has been incorporated into the Demo Plan. A RCRA Closure Report will be submitted within 60 days of completion of the demolition work.

6.1.5 Scrubber Sludge Work Plan

During the 2nd Qtr 2011, the Estate and Paradigm negotiated the sale of the Scrubber Sludge and Scrubber Sludge mixed with fines to H&H Metals out of New York. On April 29, 2011 the Estate submitted Notification of Winning Bidder and Signed Contract. On May 10, 2011, the Estate met on site with IEPA to discuss proposed changes to approved work plan. On the same day, the Estate submitted electronically via email an Addendum to the Work Plan describing proposed changes in order to properly load the material in sea containers.

SECTION SIX

Modifications

On June 2, 2011, the Estate received approval to sell approximately 3000-3500 dry MT of Scrubber Sludge mixed with fines to H&H Metals, for Jiangxi Chenfei Cooper Industry Co, Ltd located in China.

6.2 Schedule Modifications

On June 22, 2011 a Kick-Off Meeting was held at the site for AIS to inform the IEPA and USEPA their intention to resume demolition activities during the 3rd Qtr, 2011. AIS estimated that it will take approximately 2 to 3 months to complete the work. IEPA and USEPA requested that a revised work schedule. The revised schedule will be included in the 3rd Qtr 2011 Progress Report.

6.2.1 Pot Slag Work Plan

Approximately 20 mt remain to be shipped. The Estate will negotiate with potential purchasers, all of whom have previously purchased Pot Slag. After notification and/or revisions to the Work Plan, the remaining Pot Slag will be sold in the foreseeable future.

6.2.2 Copper Furnace Cleanup Solids Work Plan

Approximately 40 to 60 mt remain to be shipped. The Estate expects to ship the CFCS to Aurubis AG during the 3rd Qtr 2011. Shipping of the remaining CFCS will be worked around the demolition activities.

6.2.3 Pilot Plant Treatability Study

The Pilot Plant Treatability Study work continues to operate on a trial run basis. At this time, there is no firm date as to completion of process development work. During the 2nd Qtr 2011, Paradigm submitted a work plan titled "Scrubber Sludge and Slag Process Plan" dated March 4, 2011. Paradigm continues to work on additional deliverables. During the June 22, 2011 Demolition Activities Kick-off Meeting, Paradigm personnel, informed the IEPA that an Interim Pilot Plant Report could be submitted to IEPA and USEPA during the 3rd Qtr 2011.

SECTION SIX

Modifications

6.2.4 Demo Plan

Final Demo Work Plan was approved by IEPA on June 24, 2010. Demolition work began in June 3rd Quarter 2010. Demolition work in the Tank House Building has been completed. In addition, the majority of the work in the AAF area has been completed and work has begun along the eastern sidewall of the foundry building. The main power was shut off on December 3, 2010 to complete the work in the AFF area and begin work in the foundry building. Temporary generators were brought it to provide temporary power. Due to inclement weather, AIS informed IEPA and USEPA their intention to shutdown demolition activities. . No Demolition activities occurred between January 19, 2011 of the 1st Qtr 2011 and June 30, 2011 of the 2nd Qtr 2011.

On June 22, 2011 a Kick-Off Meeting was held at the site for AIS to inform the IEPA and USEPA their intention to resume demolition activities in July during the 3rd Qtr, 2011. AIS estimated that it will take approximately 2 to 3 months to complete the work. IEPA and USEPA requested that a revised work schedule be provided. The revised schedule will be included in the 3rd Quarter 2011 Progress Report.

Figure

APPENDIX A

Copper Furnace Cleanup Solids Shipments

TABLE 1
Summary of Copper Furnace Solids Shipments
2nd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

Number of Shipments	Bill of Lading Number	Container (CTU) #	Date Container Loaded	Approximate Weight in lbs	Approximate Weight in tons	Approximate Weight in kg	Approximate Weight in mt
1	49578	GESU 232173-0	6/6/2011	44,242	22.12	20,068	20.07
2	49579	TCLU 266762-3	6/7/2011	45,021	22.51	20,421	20.42
3	49580	MEDU 164490-5	6/7/2011	44,602	22.30	20,231	20.23
4	49581	MEDU 374995-2	6/7/2011	44,381	22.19	20,131	20.13
5	49582	MSCU 626872-2	6/9/2011	44,500	22.25	20,185	20.19
6	49583	MSCU 608499-9	6/9/2011	44,681	22.34	20,267	20.27
7	49584	TCKU 232711-7	6/9/2011	44,042	22.02	19,977	19.98
8	49587	MEDU 382493-2	6/14/2011	45,001	22.50	20,412	20.41
Total Copper Furnace Solids Shipped in 2nd Qtr 2011:				356,470	178.23	161,692	161.69

APPENDIX B

Scrap Metal Shipments

TABLE 2
Summary Of Historical Scrap Metal Shipments
2nd Quarter 2011 Progress Report
Estate Of Chemetco
Hartford, Illinois

	Number of Shipments	Date of Shipment	Bill of Lading Number	Tons of Iron and Steel Sold to Grossman Steel (1)	Tons of Lead Metal Sold to Doe Run (1)	Tons of Aluminum Metal Sold to Wallach Trading Company (1)	Tons of Stainless Steel Sold to Hi-Light International (2)	Misc. Copper Sold to Wallach Trading Company (2)	Motors Sold to Interco Trading Company (2)	Pot Slag Ladles sold to Harsco Metals (3)	Misc. Motors and Crane Parts Sold to Casey Equipment (3)	Misc. tank and clarifier sold to Tank Trailer Cleaning (3)
3rd Quarter 2010	1	September 13, 2010	49502	16.05				----	----	NA	NA	NA
	2	September 13, 2010	49503	17.04				----	----	NA	NA	NA
	3	September 13, 2010	49504	9.28				----	----	NA	NA	NA
	4	September 13, 2010	49505	16.43				----	----	NA	NA	NA
	5	September 13, 2010	49506	7.17				----	----	NA	NA	NA
	6	September 13, 2010	49507	17.01				----	----	NA	NA	NA
	7	September 14, 2010	49508	12.05				----	----	NA	NA	NA
	8	September 14, 2010	49509	16.35				----	----	NA	NA	NA
	9	September 14, 2010	49510	11.15				----	----	NA	NA	NA
	10	September 14, 2010	49511	13.29				----	----	NA	NA	NA
	11	September 14, 2010	49512	16.53				----	----	NA	NA	NA
	12	September 14, 2010	49513	13.83				----	----	NA	NA	NA
	13	September 14, 2010	49514	15.52				----	----	NA	NA	NA
	14	September 14, 2010	49515	16.61				----	----	NA	NA	NA
	15	September 15, 2010	49516	13.86				----	----	NA	NA	NA
	16	September 15, 2010	49517	14.88				----	----	NA	NA	NA
	17	September 20, 2010	49518	---	22.20			----	----	NA	NA	NA
	18	September 20, 2010	49519	---	21.89			----	----	NA	NA	NA
	19	September 22, 2010	49520	8.04				----	----	NA	NA	NA
	20	September 22, 2010	49521	7.21				----	----	NA	NA	NA
	21	September 22, 2010	49522	---	21.56			----	----	NA	NA	NA
	22	September 22, 2010	49523	7.29				----	----	NA	NA	NA
	23	September 22, 2010	49524	7.54				----	----	NA	NA	NA
	24	September 22, 2010	49525	12.42				----	----	NA	NA	NA
	25	September 23, 2010	49526	14.81				----	----	NA	NA	NA
	26	September 27, 2010	49527	9.4				----	----	NA	NA	NA
TOTAL TONS				293.8	65.7					NA	NA	NA
4th Quarter 2010	27	October 5, 2010	49529	12.47				----	----	NA	NA	NA
	28	October 7, 2010	49530	11.86				----	----	NA	NA	NA
	29	October 11, 2010	49531	12.19				----	----	NA	NA	NA
	30	October 13, 2010	49532	7.97				----	----	NA	NA	NA
	31	October 14, 2010	49534	10.06				----	----	NA	NA	NA
	32	October 14, 2010	49535	13.96				----	----	NA	NA	NA
	33	October 15, 2010	49536	11.86				----	----	NA	NA	NA
	34	October 18, 2010	49537	11.72				----	----	NA	NA	NA
	35	October 19, 2010	49538	10.70				----	----	NA	NA	NA
	36	October 19, 2010	49539	12.47				----	----	NA	NA	NA
	37	November 2, 2010	49554	8.96				----	----	NA	NA	NA
	38	November 2, 2010	49555	13.40				----	----	NA	NA	NA
	39	November 3, 2010	49556	9.09				----	----	NA	NA	NA
	40	November 8, 2010	49557	13.48				----	----	NA	NA	NA
	41	November 8, 2010	49558	---	---	18.52		----	----	NA	NA	NA
	42	November 8, 2010	49559	12.46				----	----	NA	NA	NA
	43	November 10, 2010	49560	13.92				----	----	NA	NA	NA
	44	November 10, 2010	49561	9.83				----	----	NA	NA	NA
	45	November 11, 2010	49562	10.28				----	----	NA	NA	NA
	46	November 15, 2010	49563	12.34				----	----	NA	NA	NA
	47	November 15, 2010	49564	12.39				----	----	NA	NA	NA
	48	November 17, 2010	49565	11.98				----	----	NA	NA	NA
	49	November 17, 2010	49566	10.79				----	----	NA	NA	NA
	50	December 1, 2010	49567	16.55				----	----	NA	NA	NA
	51	December 2, 2010	49568	15.55				----	----	NA	NA	NA
	52	December 9, 2010	49569	6.46				----	----	NA	NA	NA
	53	December 10, 2010	49570	8.22				----	----	NA	NA	NA
	54	December 14, 2010	FCIU 894056-8				21.82	----	----	NA	NA	NA
TOTAL TONS				300.96	0	18.52	21.82			NA	NA	NA

TABLE 2
Summary Of Historical Scrap Metal Shipments
2nd Quarter 2011 Progress Report
Estate Of Chemetco
Hartford, Illinois

	Number of Shipments	Date of Shipment	Bill of Lading Number	Tons of Iron and Steel Sold to Grossman Steel (1)	Tons of Lead Metal Sold to Doe Run (1)	Tons of Aluminum Metal Sold to Wallach Trading Company (1)	Tons of Stainless Steel Sold to Hi-Light International (2)	Misc. Copper Sold to Wallach Trading Company (2)	Motors Sold to Interco Trading Company (2)	Pot Slag Ladles sold to Harsco Metals (3)	Misc. Motors and Crane Parts Sold to Casey Equipment (3)	Misc. tank and clarifier sold to Tank Trailer Cleaning (3)
1st Quarter 2011	55	January 6, 2011	49571	15.29						NA	NA	NA
	56	January 7, 2011	CAFU 802051-4				21.96			NA	NA	NA
	57	January 10, 2011	CAIU 800920-1				21.72			NA	NA	NA
	58	January 12, 2011	DFSU 620017-0				21.53			NA	NA	NA
	59	January 13, 2011	49572	9.79						NA	NA	NA
	60	January 17, 2011	CAIU 851224-2				21.12			NA	NA	NA
	61	January 17, 2011	49573	9.09						NA	NA	NA
	62	January 19, 2011	49574					14.56		NA	NA	NA
	63	February 17, 2011	49575						8.74	NA	NA	NA
TOTAL TONS				34.17	0.00	0.00	86.33	14.56	8.74	NA	NA	NA
2nd Quarter 2011	64	April 11, 2011	NA									A
	65	April 11, 2011	47175							23.44 (B)	---	
	66	April 11, 2011	47176							24.11 (B)	---	
	67	April 11, 2011	47177							20.09 (B)	---	
	68	May 4, 2011	49576							---	13.08 (C)	
	69	May 11, 2011	49577							---	17.88 (C)	
TOTAL TONS				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	D

Note:

(1) Short Ton = 2000 lb

(2) Gross Ton = 2240 lb

(3) = Material sold under the Scrap Metal Work Plan

A= Aboveground Steel-Sand Storage Tank

B=Pot Slag Ladles (total of 3 ladles)

C= Crane equipment parts, electric motors, electric cabinets, resistor breakers, Crane Block parts

D= Two steel clarifier tanks

Steel Material sold as bulk and not as tonnage cost

NA = Not Applicable

TABLE 3
Summary Of Scrap Metal Shipments
2nd Quarter 2011 Progress Report
Estate Of Chemetco
Hartford, Illinois

	Number of Shipments	Date of Shipment	Bill of Lading Number	Iron and Steel Sold to Grossman Steel (1)	Misc. Copper Sold to Wallach Trading Company (2)	Motors Sold to Interco Trading Company (2)	Stainless Steel Sold to Hi-Light International (2)	Misc. Copper Sold to Wallach Trading Company (2)	Motors Sold to Interco Trading Company (2)	Pot Slag Ladles sold to Harsco Metals (3) B	Misc. Motors and Crane Parts Sold to Casey Equipment (3) C	Misc, tank and clarifier sold to Tank Trailer Cleaning (3)
2nd Quarter 2011	64	April 11, 2011	NA									A
	65	April 11, 2011	47175							23.44	---	
	66	April 11, 2011	47176							24.11	---	
	67	April 11, 2011	47177							20.09	---	
	68	May 4, 2011	49576							---	13.08	
	69	May 11, 2011	49577							---	17.88	
	70	June 15, 2011	NA									D
TOTAL TONS				0.00	0.00	0.00	0.00	0.00	0.00	67.63	30.96	

Note:

(1) Short Ton = 2000 lb

(2) Gross Ton = 2240 lb

(3) = Material sold under the Scrap Metal Work Plan

A= Aboveground Steel-Sand Storage Tank

B=Pot Slag Ladles (total of 3 ladles)

C= Crane equipment parts, electric motors, electric cabinets, resistor breakers, Crane Block parts

D= Two steel clarifier tanks

Steel Material sold as bulk and not as tonnage cost

NA = Not Applicable

APPENDIX C

Hazardous and Non-hazardous Waste Disposals

TABLE 4
Summary of Hazardous Waste Disposal Shipments
2nd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
3rd Quarter 2010	No Shipments were made during the 3rd Qtr 2010									
	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
4th Quarter 2010	1	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4029	11/10/2010	Mid-West Services and Heritage Environmental	16,707	8.35	Heritage Environmental, Indianapolis, IN.	000362943WAS
	2	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4097	11/17/2010	Mid-West Services and Heritage Environmental	38,727	19.36	Heritage Environmental, Indianapolis, IN.	000362944WAS
	3	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40006	12/7/2010	Mid-West Services and Heritage Environmental	12,187	6.09	Heritage Environmental, Indianapolis, IN.	000362945WAS
	4	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40130	12/7/2010	Mid-West Services and Heritage Environmental	20,067	10.03	Heritage Environmental, Indianapolis, IN.	000362946WAS
	5	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4025	12/9/2010	Mid-West Services and Heritage Environmental	17,987	8.99	Heritage Environmental, Indianapolis, IN.	000362947WAS
	6	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4090	12/9/2010	Mid-West Services and Heritage Environmental	13,487	6.74	Heritage Environmental, Indianapolis, IN.	000362948WAS
	7	Miscellaneous Construction/Demolition Debris	40 Yard Bin	4039	12/13/2010	Mid-West Services and Heritage Environmental	15,607	7.80	Heritage Environmental, Indianapolis, IN.	000362949WAS
	8	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40104	12/13/2010	Mid-West Services and Heritage Environmental	10,107	5.05	Heritage Environmental, Indianapolis, IN.	000362950WAS
	9	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40124	12/15/2010	Mid-West Services and Heritage Environmental	26,667	13.33	Heritage Environmental, Indianapolis, IN.	000362955WAS
	10	Miscellaneous Construction/Demolition Debris	40 Yard Bin	40120	12/15/2010	Mid-West Services and Heritage Environmental	23,227	11.61	Heritage Environmental, Indianapolis, IN.	000362958WAS
TOTAL							194,770	97.39		

TABLE 4
Summary of Hazardous Waste Disposal Shipments
2nd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
4th Quarter 2010	1	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20381	1027/2010	Mid-West Services and Heritage Environmental	35,720	17.86	Heritage Environmental, Indianapolis, IN.	000362951WAS
	2	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20213	12/14/2010	Mid-West Services and Heritage Environmental	37,940	18.97	Heritage Environmental, Indianapolis, IN.	000362952WAS
	3	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20559	12/14/2010	Mid-West Services and Heritage Environmental	40,420	20.21	Heritage Environmental, Indianapolis, IN.	000362954WAS
	4	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20484	12/14/2010	Mid-West Services and Heritage Environmental	35,980	17.99	Heritage Environmental, Indianapolis, IN.	000362953WAS
	5	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20458	12/15/2010	Mid-West Services and Heritage Environmental	34,880	17.44	Heritage Environmental, Indianapolis, IN.	000362956WAS
	6	Concrete and misc debris screened out from fines in Fines Building	20 Yard Bin	20384	12/15/2010	Mid-West Services and Heritage Environmental	27,980	13.99	Heritage Environmental, Indianapolis, IN.	000362957WAS
TOTAL							212,920	106.46		

TABLE 4
Summary of Hazardous Waste Disposal Shipments
2nd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
4th Quarter 2010	1	Decon Water, sludge from Cupro Decon activities	55 Gal Drum	NA	10/27/2010	Tri State Motor on EMA's behalf	220	0.110	EQ Michigan Disposal Waste Treatment Bellville, Mi	003957277FLE
	2	Misc debris, decon pad, from Cupro Shipments	55 Gal Drum	NA	10/27/2010	Tri State Motor on EMA's behalf	75	0.038	EQ Michigan Disposal Waste Treatment Bellville, Mi	003957276FLE
	3	Decon Water, sludge from Pot Slag Decon activities	55 Gal Drum	NA	12/15/2010	Tri State Motor on EMA's behalf	220	0.110	EQ Michigan Disposal Waste Treatment Bellville, Mi	003957332FLE
	4	Misc debris, decon pad, from Pot Slag Shipments	55 Gal Drum	NA	12/15/2010	Tri State Motor on EMA's behalf	80	0.040	EQ Michigan Disposal Waste Treatment Bellville, Mi	003957331FLE
							Total Liquid	440	0.220	
							Total Solids	155	0.078	

	Number of Shipments	Description	No. Containers	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
1Qtr 2011	1	Misc corrosive acids, flammable liquids, petroleum distillates	17	Multiple overpacks, plastic and metal drums	NA	1/14/2011	Heritage Environmental	2,605	1.3025	Heritage Environmental, Liverpool, OH	000350627WAS
	2	Misc corrosive acids, flammable liquids, petroleum distillates	15	Multiple overpacks, plastic and metal drums	NA	1/14/2011	Heritage Environmental	3,826	1.913	Heritage Environmental, Indianapolis, IN.	000350631WAS
	3	Blasting Sand used for deconning stainless steel	3	Super Sacks	NA	3/16/2011	Tri State Motor on EMA's behalf	4,500	2.250	EQ Michigan Disposal Waste Treatment Belleville, MI	0044214831FLE
								Total Tons	---	5.4655	
								Total Pounds	10,931	---	

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
2nd Quarter 2011	No Shipments were made during the 2nd Qtr 2011									

TABLE 5
Summary of Non-Hazardous Solids, Liquids, and Special Waste Disposal Shipments
2nd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

	Number of Shipments	Date of Shipment	Description of Material	Container	Bill of Lading Number	Bin Number	Weight in Tons	Hauler	Disposal Site
3rd Quarter 2010	1	8/26/2010	Misc. Demolition Debris, Solid Waste	40 CY Bin	NA	NA	4.33	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	2	8/30/2010	Misc. Demolition Debris, Solid Waste	40 CY Bin	NA	NA	5.62	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	3	8/31/2010	Misc. Demolition Debris, Solid Waste	40 CY Bin	NA	NA	5.4	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	4	9/1/2010	Misc. Demolition Debris, Solid Waste	40 CY Bin	NA	NA	7.55	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	5	9/10/2010	Misc. Demolition Debris, Solid Waste	40 CY Bin	NA	NA	5.86	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	Total Tons						28.76		
	Number of Shipments	Date of Shipment	Description of Material	Container	Bill of Lading Number	Weight in Lbs	Weight in Tons	Hauler	Disposal Site
	1	9/16/2010	Concrete Debris	Trailer	95454	22,180	11.09	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	2	9/16/2010	Concrete Debris	Trailer	95462	36,960	18.48	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	3	9/16/2010	Concrete Debris	Trailer	95485	36,940	18.47	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	4	9/16/2010	Concrete Debris	Trailer	95501	35,780	17.89	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	5	9/16/2010	Concrete Debris	Trailer	95517	29,329	14.66	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	6	9/16/2010	Concrete Debris	Trailer	95539	50,320	25.16	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	7	9/16/2010	Concrete Debris	Trailer	95545	45,160	22.58	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	8	9/16/2010	Concrete Debris	Trailer	95591	44,200	22.1	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	9	9/16/2010	Concrete Debris	Trailer	95603	39,700	19.85	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	10	9/16/2010	Concrete Debris	Trailer	95623	42,660	21.33	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	11	9/16/2010	Concrete Debris	Trailer	95650	47,700	23.85	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	12	9/17/2010	Concrete Debris	20 CY Bin	95726	23,760	11.88	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois

TABLE 5
Summary of Non-Hazardous Solids, Liquids, and Special Waste Disposal Shipments
2nd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

3rd Quarter 2010	13	9/17/2010	Concrete Debris	Trailer	95734	49,000	24.5	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	14	9/17/2010	Concrete Debris	Trailer	95757	42,060	21.03	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	15	9/17/2010	Concrete Debris	Trailer	95795	47,200	23.6	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	16	9/17/2010	Concrete Debris	Trailer	95824	38,200	19.1	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	17	9/17/2010	Concrete Debris	Trailer	95873	38,660	19.33	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	18	9/17/2010	Concrete Debris	Trailer	95929	44,700	22.35	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	19	9/17/2010	Concrete Debris	20 CY Bin	95916	14,960	7.48	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	20	9/17/2010	Concrete Debris	20 CY Bin	95874	24,300	12.15	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
	21	9/17/2010	Concrete Debris	20 CY Bin	96078	15,240	7.62	Midwest Sanitary Services	Roxana Landfill - Roxana, Illinois
					Total Pounds	769,009	---		
					Total Tons	---	384.50		

4th Quarter 2010	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
	No Shipments were made during the 4th Quarter 2010									

TABLE 5
Summary of Non-Hazardous Solids, Liquids, and Special Waste Disposal Shipments
2nd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

	Number of Shipments	Description	Container Size	Bin #	Bill of Lading Number	picked up date	Volume or Weight	Lbs or Gal	tons	Waste Hauler	Disposal Facility	Manifest #
1st Quarter 2011	1	Misc. Demolition Debris, Solid Waste	40 CY Bin	NA	NA	1/13/2011	NA		NA	Midwest Sanitary Services	Roxana Landfill, IL	NA
	2	Unused Oil	Vacuum Truck	NA	NA	1/14/2011	2,315	gal	NA	RS Used Oil Services	RS Used Oil Services, IL	008153818JJK
	3	Oily Water	Vacuum Truck	NA	NA	1/17/2011	1,105	gal	NA	RS Used Oil Services	RS Used Oil Services, IL	006611023JJK
	4	Crushed Drums	40 CY Bin	40108	47173	1/17/2011	4,060	lb	2.03	Midwest Sanitary Services	Roxana Landfill, IL	NA
	5	Grease and crushed drums	20 CY Bin	20841	NA	1/24/2011	10,380	lb	5.19	Midwest Sanitary Services	Milam Landfill, IL	00350687WAS

Total Pounds	14,440
Total Tons	7.22

	Number of Shipments	Description	Container Size	Bin #	picked up date	Waste Hauler	lbs	tons	Disposal Facility	Manifest #
2nd Quarter 2011	No Shipments were made during the 2nd Quarter 2011									

APPENDIX D

NPDES eDNR forms and Analytical Results

TABLE 6
Summary of NPDES Stormwater Data
2nd Quarter 2011 Progress Report
Estate of Chemetco
Hartford, Illinois

NPDES IL0025474, OUTFALL: #005 DATA TRACKING-30 Day Average
 UPDATED 7-6-2011
 (EXCEEDANCES OF STDS SHOWN IN SHADED CELLS AND BOLD FONT)

NPDES #005 OUTFALL DISCHARGE SAMPLE ANALYSIS											
Parameter	Units	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	2011 YTD Average	35IAC304 Effluent Water Quality Stds (mg/l)	12 Month Running Avg	12 Mo Avg vs. Effluent Stds
BOD, 5-Day	mg/L	<5	6	12	<5	5	<5	6.33	30	5.75	19.2%
Oxygen Demand, Chemical	mg/L	<50	<50	57	<50	<50	<50	51.17	50	58.17	116.3%
pH		2.61	9.04	9.49	8.63	9.24	8.79	7.97	9.0	7.80	86.6%
Solids, Total Suspended	mg/L	<6	24.00	28.00	17.00	16.00	<6	16.17	15	21.92	146.1%
Arsenic, Total	mg/L	<0.0250	<0.0250	0.0274	0.0378	0.0374	0.0286	0.0302	0.25	0.0276	11.0%
Barium, Total	mg/L	0.0702	0.0808	0.0743	0.0777	0.0787	0.0664	0.0747	2.00	0.0760	3.8%
Cadmium, Total	mg/L	0.0027	0.0073	0.0157	0.0411	0.0279	0.0127	0.0179	0.15	0.0113	7.6%
Chromium, Total	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0100	1.00	0.0100	nil
Copper, Total	mg/L	0.0207	0.0640	0.0841	0.2340	0.1480	0.0560	0.1011	0.50	0.0753	15.1%
Iron, Total	mg/L	0.0578	0.3510	0.4790	0.7040	0.3460	0.1780	0.3526	2.00	0.2946	14.7%
Lead, Total	mg/L	<0.0400	0.0969	0.1680	0.2200	0.1670	0.0536	0.1243	0.20	0.0894	44.7%
Manganese, Total	mg/L	0.0516	0.1660	0.1410	0.0985	0.0925	0.0808	0.1051	1.00	0.0845	8.4%
Nickel, Total	mg/L	0.0187	0.0411	0.0644	0.0868	0.0411	0.0384	0.0484	1.00	0.0380	3.8%
Selenium, Total	mg/L	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	0.0500	None	0.0500	nil
Silver, Total	mg/L	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0100	0.10	0.0100	nil
Zinc, Total	mg/L	0.0839	0.2300	0.3640	0.6720	0.4500	0.1560	0.3260	1.00	0.2456	24.6%
Oil and Grease	mg/L	<5	<6	<5	<6	<5	<6	5.50	15	5.75	38.3%
Nitrogen, Ammonia, Total	mg/L	0.140	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	None	0.12	nil
Avg Flow (MGD)	MGD	0.001440	0.017280	0.001584	0.019440	0.002016	0.003600	0.007560		0.007092	nil
Avg flow (GPM)	GPM	1.00	12.00	1.10	13.50	1.40	2.50	5.25		4.60	nil
									Note: pH 6-9		

Note:

MGD = million gallons per day

GPM = Gallons per minute

Highlighted colored cells reflect 2011 results

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

NAME _____

ESTATE OF CHEMETCO-HARTFORD

ADDRESS

3574 CHEMETCO LANE

HARTFORD IL 62048

FACILITY

CHEMETCO-HARTFORD, ESTATE OF

LOCATION

3574 CHEMETCO LANE

HARTFORD IL 62048

DISCHARGE MONITORING REPORT(DMR)

IL0025747

005 0

Minor

PERMIT NUMBER

DISCHARGE NUMBER

06

MONITORING PERIOD

MO - DAY - YEAR

MO - DAY - YEAR

FROM 04 - 01 - 2011

TO 04 - 30 - 2011

Discharge Description

Discharge Type

*** No Discharge ☐ ***

STORMWATER LAGOON

EXO

PARAMETER			QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	Frequency of Analysis	SAMPLE TYPE	
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT				
BOD, 5-day, 20 deg. C 00310 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	< 5	< 5	(19) mg/L	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
Oxygen demand, chem. (high level) (COD) 00340 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	< 50	< 50	(19) mg/L	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
pH 00400 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	= 8.63	*****	= 8.63	(12) SU	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	>= 6 MO MIN	*****		<= 9 MO MAX		01/30 - Once Per Month
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
Solids, total suspended 00530 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	= 17	= 17	(19) mg/L	1	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											

COMMENTS:												
Arsenic, total (as As) 01002 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0378	= 0.0378		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Barium, total (as Ba) 01007 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0777	= 0.0777		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Cadmium, total (as Cd) 01027 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0411	= 0.0411		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Chromium, total (as Cr) 01034 1 0		SAMPLE MEASUREMENT	*****	*****		*****	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Copper, total (as Cu) 01042 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.234	= 0.234		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Iron, total (as Fe) 01045 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.704	= 0.704		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												

Lead, total (as Pb) 01051 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.220	= 0.220		2	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Manganese, total (as Mn) 01055 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.0985	= 0.0985		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Nickel, total (as Ni) 01067 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.0868	= 0.0868		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Silver, total (as Ag) 01077 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Zinc, total (as Zn) 01092 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.672	= 0.672		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Selenium, total (as Se) 01147 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 0.0500	< 0.0500		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Oil and grease 03582 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 6	< 6		0	01/30	GR

Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Nitrogen, ammonia, total (as NH3) 34726 1 0		SAMPLE MEASUREMENT	*****	*****		*****	< 0.10	< 0.10		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Flow, in conduit or thru treatment plant 50050 1 0		SAMPLE MEASUREMENT	= 0.019440	= 0.019440		*****	*****	*****		0	99/99	
Effluent Gross		PERMIT REQUIREMENT	30DA AVG	DAILY MX	(03) Mgal/d	*****	*****	*****	*****		99/99 - Continuous	-
NO DATA CODE	DESCRIPTION:											
COMMENTS:												

CONSIDERATION FOR FORM COMPLETION

SAMPLE FREQUENCY SHALL BE ONCE AMONTH WHEN DISCHARGING.

FORM COMMENTS**PRINCIPAL EXECUTIVE OFFICER**

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under those statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Submitted By**Date**

00012226 + CN=Jorge Y Garcia

07 - 06 - 2011

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT(DMR)

IL0025747

005 0

Minor

PERMIT NUMBER

DISCHARGE NUMBER

06

3574 CHEMETCO LANE

HARTFORD IL 62048

MONITORING PERIOD

MO - DAY - YEAR

MO - DAY - YEAR

FACILITY

CHEMETCO-HARTFORD, ESTATE OF

FROM 05 - 01 - 2011

TO	05 - 31 - 2011
----	----------------

LOCATION

Discharge Description

Discharge Type

*** No Discharge ☐ ***

3574 CHEMETCO LANE

STORMWATER LAGOON

EXO

HARTFORD IL 62048

PARAMETER			QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	Frequency of Analysis	SAMPLE TYPE	
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT				
BOD, 5-day, 20 deg. C 00310 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	= 5	= 5	(19) mg/L	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
Oxygen demand, chem. (high level) (COD) 00340 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	< 50	< 50	(19) mg/L	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
pH 00400 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	= 9.24	*****	= 9.24	(12) SU	1	01/30	GR
			PERMIT REQUIREMENT	*****	*****		>= 6 MO MIN	*****	<= 9 MO MAX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
Solids, total suspended 00530 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	= 16	= 16	(19) mg/L	2	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											

COMMENTS:												
Arsenic, total (as As) 01002 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0374	= 0.0374		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Barium, total (as Ba) 01007 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0787	= 0.0787		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Cadmium, total (as Cd) 01027 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0279	= 0.0279		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Chromium, total (as Cr) 01034 1 0		SAMPLE MEASUREMENT	*****	*****		*****	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Copper, total (as Cu) 01042 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.148	= 0.148		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Iron, total (as Fe) 01045 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.346	= 0.346		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												

Lead, total (as Pb) 01051 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.167	= 0.167		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Manganese, total (as Mn) 01055 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.0925	= 0.0925		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Nickel, total (as Ni) 01067 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.0411	= 0.0411		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Silver, total (as Ag) 01077 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Zinc, total (as Zn) 01092 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.450	= 0.450		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Selenium, total (as Se) 01147 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 0.0500	< 0.0500		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Oil and grease 03582 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 5	< 5		0	01/30	GR

Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Nitrogen, ammonia, total (as NH3) 34726 1 0		SAMPLE MEASUREMENT	*****	*****		*****	< 0.10	< 0.10		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:										
COMMENTS:												
Flow, in conduit or thru treatment plant 50050 1 0		SAMPLE MEASUREMENT	= 0.003600	= 0.003600		*****	*****	*****		0	99/99	
Effluent Gross		PERMIT REQUIREMENT	30DA AVG	DAILY MX	(03) Mgal/d	*****	*****	*****	*****		99/99 - Continuous	-
NO DATA CODE		DESCRIPTION:										
COMMENTS:												

CONSIDERATION FOR FORM COMPLETION

SAMPLE FREQUENCY SHALL BE ONCE AMONTH WHEN DISCHARGING.

FORM COMMENTS

Parameter Code	Monitoring Location Code	Measurement Field	Status	Type
00400	1	Concentration Maximum	Acknowledged	Soft
Validation Check Description	Reported concentration maximum violates permit limit			
Parameter Description	pH			
Monitoring Location Description	Effluent Gross			
Validation Check Comment				

PRINCIPAL EXECUTIVE OFFICER

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under those statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Submitted By

00012226 + CN=Jorge Y Garcia

Date

07 - 06 - 2011

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

NAME _____

ESTATE OF CHEMETCO-HARTFORD

ADDRESS

3574 CHEMETCO LANE

HARTFORD

IL 62048

FACILITY

CHEMETCO-HARTFORD, ESTATE OF

LOCATION

3574 CHEMETCO LANE

HARTFORD

IL 62048

DISCHARGE MONITORING REPORT(DMR)

IL0025747

005 0

Minor

PERMIT NUMBER

DISCHARGE NUMBER

06

MONITORING PERIOD

MO - DAY - YEAR

MO - DAY - YEAR

FROM

06 - 01 - 2011

TC

06 - 30 - 2011

Discharge Description

Discharge Type

*** No Discharge

7

STORMWATER LAGOON

EXO

PARAMETER			QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	Frequency of Analysis	SAMPLE TYPE	
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNIT				
BOD, 5-day, 20 deg. C 00310 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	< 5	< 5	(19) mg/L	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
Oxygen demand, chem. (high level) (COD) 00340 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	< 50	< 50	(19) mg/L	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
pH 00400 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	= 8.79	*****	= 8.79	(12) SU	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	>= 6 MO MIN	*****		<= 9 MO MAX		01/30 - Once Per Month
NO DATA CODE		DESCRIPTION:											
COMMENTS:													
Solids, total suspended 00530 1 0 Effluent Gross			SAMPLE MEASUREMENT	*****	*****	*****	*****	< 6	< 6	(19) mg/L	0	01/30	GR
			PERMIT REQUIREMENT	*****	*****		*****	30DA AVG	DAILY MX			01/30 - Once Per Month	GR - GRAB
NO DATA CODE		DESCRIPTION:											

COMMENTS:												
Arsenic, total (as As) 01002 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0286	= 0.0286		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Barium, total (as Ba) 01007 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0664	= 0.0664		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Cadmium, total (as Cd) 01027 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0127	= 0.0127		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Chromium, total (as Cr) 01034 1 0		SAMPLE MEASUREMENT	*****	*****		*****	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Copper, total (as Cu) 01042 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.0536	= 0.0536		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												
Iron, total (as Fe) 01045 1 0		SAMPLE MEASUREMENT	*****	*****		*****	= 0.178	= 0.178		0	01/30	GR
Effluent Gross		PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:											
COMMENTS:												

Lead, total (as Pb) 01051 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.536	= 0.536		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Manganese, total (as Mn) 01055 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.0808	= 0.0808		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Nickel, total (as Ni) 01067 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.0384	= 0.0384		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Silver, total (as Ag) 01077 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 0.0100	< 0.0100		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Zinc, total (as Zn) 01092 1 0	SAMPLE MEASUREMENT	*****	*****		*****	= 0.156	= 0.156		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Selenium, total (as Se) 01147 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 0.0500	< 0.0500		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Oil and grease 03582 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 6	< 6		0	01/30	GR

Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Nitrogen, ammonia, total (as NH3) 34726 1 0	SAMPLE MEASUREMENT	*****	*****		*****	< 0.10	< 0.10		0	01/30	GR
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30DA AVG	DAILY MX	(19) mg/L		01/30 - Once Per Month	GR - GRAB
NO DATA CODE	DESCRIPTION:										
COMMENTS:											
Flow, in conduit or thru treatment plant 50050 1 0	SAMPLE MEASUREMENT	=	= 0.003600		*****	*****	*****		0	99/99	
Effluent Gross	PERMIT REQUIREMENT	30DA AVG	DAILY MX	(03) Mgal/d	*****	*****	*****	*****		99/99 - Continuous	-
NO DATA CODE	DESCRIPTION:										
COMMENTS:											

CONSIDERATION FOR FORM COMPLETION

SAMPLE FREQUENCY SHALL BE ONCE AMONTH WHEN DISCHARGING.

FORM COMMENTS

PRINCIPAL EXECUTIVE OFFICER

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under those statues may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Submitted By

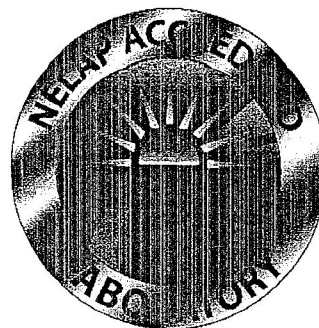
Date

00012226 + CN=Jorge Y Garcia

07 - 06 - 2011

May 05, 2011

Jorge Garcia
Chemetco
3754 Chemetco Lane
Hartford, IL 62048
TEL: (618)254-4381
FAX: (618)254-0138



RE: NPDES #005

WorkOrder: 11041317

Dear Jorge Garcia:

TEKLAB, INC received 1 sample on 4/29/2011 1:25:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com

Client: Chemetco

Work Order: 11041317

Client Project: NPDES #005

Report Date: 05-May-11

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|---|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit |
| R - RPD outside accepted recovery limits | S - Spike Recovery outside recovery limits |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11041317

Client Project: NPDES #005

Report Date: 05-May-11

Cooler Receipt Temp: 5.6 °C

Locations and Accreditations

Collinsville
Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield
Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email kmclain@teklabinc.com

Kansas City
Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2012	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2012	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2011	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2011	Springfield
Arkansas	ADEQ	88-0966		3/14/2012	Collinsville
Illinois	IDPH	17584		5/31/2011	Collinsville
Kentucky	UST	0073		5/26/2012	Collinsville
Missouri	MDNR	00930		5/31/2011	Collinsville
Oklahoma	ODEQ	9978		8/31/2011	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11041317

Client Project: NPDES #005

Report Date: 05-May-11

Lab ID: 11041317-001

Client Sample ID: NPDES #005

Matrix: AQUEOUS

Collection Date: 04/29/2011 10:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	6		< 6	mg/L	1	05/02/2011 9:21	R148891
EPA 600 350.1 R2.0 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		< 0.10	mg/L	1	05/02/2011 12:33	R148883
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		< 50	mg/L	1	05/02/2011 11:50	R148867
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		8.63		1	05/02/2011 16:49	R148900
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		17	mg/L	1	05/02/2011 11:00	R148869
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	04/29/2011 20:20	67819
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		0.0378	mg/L	1	05/03/2011 17:10	67853
Barium	NELAP	0.0050		0.0777	mg/L	1	05/03/2011 17:10	67853
Cadmium	NELAP	0.0020		0.0411	mg/L	1	05/03/2011 17:10	67853
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	05/04/2011 13:15	67853
Copper	NELAP	0.0100		0.234	mg/L	1	05/03/2011 17:10	67853
Iron	NELAP	0.0200		0.704	mg/L	1	05/03/2011 17:10	67853
Lead	NELAP	0.0400		0.220	mg/L	1	05/03/2011 17:10	67853
Manganese	NELAP	0.0050		0.0985	mg/L	1	05/04/2011 13:15	67853
Nickel	NELAP	0.0100		0.0868	mg/L	1	05/03/2011 17:10	67853
Selenium	NELAP	0.0500		< 0.0500	mg/L	1	05/03/2011 17:10	67853
Silver	NELAP	0.0100		< 0.0100	mg/L	1	05/03/2011 17:10	67853
Zinc	NELAP	0.0100		0.672	mg/L	1	05/03/2011 17:10	67853



Receiving Check List

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11041317

Client Project: NPDES #005

Report Date: 05-May-11

Carrier: Jacob Grimes

Received By: JM

Completed by:

On:

29-Apr-11

Timothy W. Mathis

Reviewed by:

On:

29-Apr-11

Elizabeth A. Hurley

Pages to follow: Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 5.6

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☒

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - vials have zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

Any No responses must be detailed below or on the COC.

Print Form

Teklab Chain of Custody

Pg. 1 of 1 Workorder 11041317

5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618)344-1004 ~ Fax: (618)344-1005

Chemetco

Are the samples chilled? ☒ Yes ☐ No with: ☒ Ice ☐ Blue icePreserved in ☐ Lab ☒ Field

3754 Chemetco Lane

Cooler Temp 5.6 Sampler Jorge Garcia

Teklab, Inc. ^{TWM/SM}
Courier PickUp ^{4/29/11}

Hartford

IL

62048

eMail: jgarcia@chemetcoestate.com

Project: NPDES #005

Comments

Metals: As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Se, Ag, and Zn

Contact Jorge Garcia

eMail

see comments

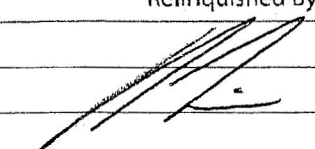
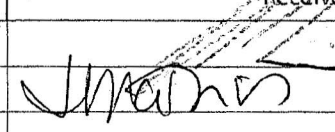
Phone (618) 254-4381

Requested Due Date

NTAT

Billing/PO

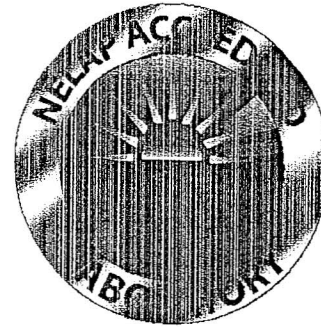
Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	BOD	TSS	pH	Metals	Oil & Grease	Ammonia	COD				
11041317 001	NPDES #005	4-29-11 1050	Other	Aqueous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Relinquished By *	Date/Time	Received By	Date/Time
	4-29-11 4/29/11 1325		4/29/11 1050 4-29-11 1325

* The individual signing this agreement on behalf of client acknowledges that they have read and understand the terms of this agreement and that they have the authority to sign on behalf of client.

June 06, 2011

Jorge Garcia
Chemetco
3754 Chemetco Lane
Hartford, IL 62048
TEL: (618)254-4381
FAX: (618)254-0138



RE: NPDES #005

WorkOrder: 11051399

Dear Jorge Garcia:

TEKLAB, INC received 1 sample on 5/31/2011 12:52:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com

Client: Chemetco

Work Order: 11051399

Client Project: NPDES #005

Report Date: 06-Jun-11

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|---|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit |
| R - RPD outside accepted recovery limits | S - Spike Recovery outside recovery limits |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11051399

Client Project: NPDES #005

Report Date: 06-Jun-11

Cooler Receipt Temp: 2.0 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	kmcclain@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2012	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2012	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2011	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2011	Springfield
Arkansas	ADEQ	88-0966		3/14/2012	Collinsville
Illinois	IDPH	17584		5/31/2011	Collinsville
Kentucky	UST	0073		5/26/2012	Collinsville
Missouri	MDNR	00930		5/31/2011	Collinsville
Oklahoma	ODEQ	9978		8/31/2011	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11051399

Client Project: NPDES #005

Report Date: 06-Jun-11

Lab ID: 11051399-001

Client Sample ID: NPDES #005

Matrix: AQUEOUS

Collection Date: 05/31/2011 8:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	5		< 5	mg/L	1	06/01/2011 9:18	R150180
EPA 600 350.1 R2.0 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		< 0.10	mg/L	1	06/01/2011 7:07	R150132
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		< 50	mg/L	1	06/01/2011 16:05	R150177
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		9.24		1	05/31/2011 16:55	R150121
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		16	mg/L	1	06/01/2011 10:00	R150131
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		5	mg/L	1	05/31/2011 18:40	68604
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		0.0374	mg/L	1	06/02/2011 16:30	68607
Barium	NELAP	0.0050		0.0787	mg/L	1	06/03/2011 16:09	68607
Cadmium	NELAP	0.0020		0.0279	mg/L	1	06/02/2011 16:30	68607
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	06/02/2011 16:30	68607
Copper	NELAP	0.0100		0.148	mg/L	1	06/02/2011 16:30	68607
Iron	NELAP	0.0200		0.346	mg/L	1	06/02/2011 16:30	68607
Lead	NELAP	0.0400		0.167	mg/L	1	06/02/2011 16:30	68607
Manganese	NELAP	0.0050		0.0925	mg/L	1	06/02/2011 16:30	68607
Nickel	NELAP	0.0100		0.0411	mg/L	1	06/03/2011 16:09	68607
Selenium	NELAP	0.0500		< 0.0500	mg/L	1	06/02/2011 16:30	68607
Silver	NELAP	0.0100		< 0.0100	mg/L	1	06/02/2011 16:30	68607
Zinc	NELAP	0.0100		0.450	mg/L	1	06/02/2011 16:30	68607



Receiving Check List

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11051399

Client Project: NPDES #005

Report Date: 06-Jun-11

Carrier: Dawn Brantley

Received By: TWM

Completed by: *Marvin L. Darling II*

Reviewed by: *Elizabeth A. Hurley*

On:

On:

31-May-11

31-May-11

Marvin L. Darling

Elizabeth A. Hurley

Pages to follow: Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 2.0

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☒

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - vials have zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

Any No responses must be detailed below or on the COC.

Print Form

Teklab Chain of Custody

Pg. 1 of 1 Workorder 11051399

5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618)344-1004 ~ Fax:(618)344-1005

Chemetco

Are the samples chilled? ☒ Yes ☐ No with: ☐ Ice ☒ Blue icePreserved in ☐ Lab ☒ Field

3754 Chemetco Lane

Cooler Temp 1.0 Sampler Jorge Garcia

Hartford

IL

62048

eMail: jgarcia@chemetcoestate.com

Project: NPDES #005

Comments

Metals: As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Se, Ag, and Zn

Teklab, Inc.
Courier Pick UpContact Jorge Garcia

eMail

see comments

Phone (618) 254-4381

Requested Due Date

NTAT

Billing/PO

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	BOD	TSS	pH	Metals	Oil & Grease	Ammonia	COD				
11051399 -cc1	NPDES #005	5-31-11 830	Other	Aqueous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Relinquished By *	Date/Time	Received By	Date/Time
<i>Jorge Garcia</i>	5-31-11 1040	<i>[Signature]</i>	5/31/11 1040
<i>[Signature]</i>	5/31/11 1252	<i>[Signature]</i>	5-31-11 1252

* The individual signing this agreement on behalf of client acknowledges that they have read and understand the terms of this agreement and that they have the authority to sign on behalf of client.

July 05, 2011

Jorge Garcia
Chemetco
3754 Chemetco Lane
Hartford, IL 62048
TEL: (618)254-4381
FAX: (618)254-0138



RE: NPDES #005

WorkOrder: 11061378

Dear Jorge Garcia:

TEKLAB, INC received 1 sample on 6/30/2011 11:11:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Project Manager
(618)344-1004 ex 33
ehurley@teklabinc.com



Definitions

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11061378

Client Project: NPDES #005

Report Date: 05-Jul-11

Abbr Definition

- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI Did not ignite
- DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW Molecular weight
- ND Not Detected at the Reporting Limit
- NELAP NELAP Accredited
- PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC Too numerous to count (> 200 CFU)

Qualifiers

- | | |
|--|---|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range | H - Holding times exceeded |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit |
| R - RPD outside accepted recovery limits | S - Spike Recovery outside recovery limits |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11061378

Client Project: NPDES #005

Report Date: 05-Jul-11

Cooler Receipt Temp: 4.8 °C

Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	kmccclain@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2012	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2012	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2012	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2012	Springfield
Arkansas	ADEQ	88-0966		3/14/2012	Collinsville
Illinois	IDPH	17584		4/30/2012	Collinsville
Kentucky	UST	0073		5/26/2012	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2011	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: Chemetco

Work Order: 11061378

Client Project: NPDES #005

Report Date: 05-Jul-11

Lab ID: 11061378-001

Client Sample ID: NPDES #005

Matrix: AQUEOUS

Collection Date: 06/30/2011 8:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 1664A								
Hexane Extractable Material	NELAP	6		< 6	mg/L	1	07/01/2011 8:51	R151515
EPA 600 350.1 R2.0 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		< 0.10	mg/L	1	07/01/2011 10:30	R151511
EPA 600 410.4								
Chemical Oxygen Demand	NELAP	50		< 50	mg/L	1	07/05/2011 7:51	R151537
STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED								
Lab pH	NELAP	1.00		8.79		1	07/01/2011 15:59	R151529
STANDARD METHODS 18TH ED. 2540 D								
Total Suspended Solids	NELAP	6		< 6	mg/L	1	07/01/2011 9:00	R151499
STANDARD METHODS 18TH ED. 5210 B								
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	06/30/2011 15:40	69317
EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		0.0286	mg/L	1	07/01/2011 13:15	69314
Barium	NELAP	0.0050		0.0664	mg/L	1	07/01/2011 13:15	69314
Cadmium	NELAP	0.0020		0.0127	mg/L	1	07/01/2011 13:15	69314
Chromium	NELAP	0.0100		< 0.0100	mg/L	1	07/01/2011 13:15	69314
Copper	NELAP	0.0100		0.0560	mg/L	1	07/01/2011 13:15	69314
Iron	NELAP	0.0200		0.178	mg/L	1	07/01/2011 13:15	69314
Lead	NELAP	0.0400		0.0536	mg/L	1	07/01/2011 13:15	69314
Manganese	NELAP	0.0050		0.0808	mg/L	1	07/01/2011 13:15	69314
Nickel	NELAP	0.0100		0.0384	mg/L	1	07/01/2011 13:15	69314
Selenium	NELAP	0.0500		< 0.0500	mg/L	1	07/01/2011 13:15	69314
Silver	NELAP	0.0100		< 0.0100	mg/L	1	07/01/2011 13:15	69314
Zinc	NELAP	0.0100		0.156	mg/L	1	07/01/2011 13:15	69314



Receiving Check List

<http://www.teklabinco.com/>

Client: Chemetco

Work Order: 11061378

Client Project: NPDES #005

Report Date: 05-Jul-11

Carrier: Dawn Brantley

Received By: JM

Completed by:

Marvin L. Darling II

Reviewed by:

Elizabeth A. Hurley

On:

On:

30-Jun-11

30-Jun-11

Marvin L. Darling

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 4.8
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input checked="" type="checkbox"/>	NA <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
<div>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</div>				
Water - vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials	<input checked="" type="checkbox"/>
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers	<input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.

Print Form

Teklab Chain of Custody

Pg. 1 of 1 Workorder 11041378

5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618)344-1004 ~ Fax:(618)344-1005

Chemetco

Are the samples chilled? ☒ Yes ☐ No with: ☐ Ice ☒ Blue ice

Preserved in Lab ☒ Field ☐
Teklab, Inc.
Courier Pick Up
Jen/amt
6/30/11

3754 Chemetco Lane

Cooler Temp 48 Sampler Jorge Garcia

Hartford IL 62048

Comments

eMail: jgarcia@chemetcoestate.com

Project: NPDES #005

Metals: As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Ni, Se, Ag, and Zn

Contact Jorge Garcia eMail see comments Phone (618) 254-4381 Requested Due Date NTAT Billing/PO

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	BOD	TSS	pH	Metals	Oil & Grease	Ammonia	COD				
11061378 -001	NPDES #005	6-30-11 8:20	Other	Aqueous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Relinquished By *	Date/Time	Received By	Date/Time
Jorge Garcia	6-30-11 952	DBT	6/30/11 952
DBT	6/30/11 1111	SMITH	6-30-11 11:11

* The individual signing this agreement on behalf of client acknowledges that they have read and understand the terms of this agreement and that they have the authority to sign on behalf of client.

APPENDIX E

Bi-Weekly, Monthly Security Action Item Reports

Estate of Chemetco, Inc.
Security Plan and Status of Action Items
Bi-Weekly April 8, 2011

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Signage	a. Seal Order sign at entrance is not readily visible to those entering the site via the parking lot. b. Smelter site and surrounding property in Seal Order have little to no "No Trespassing Signs."	a. Relocate Seal Order sign along with a No Trespassing sign at entrance to make it immediately visible to anyone entering parking lot. b. Place bilingual "No Trespassing" signs strategically around smelter site and along boundary of surrounding property in Seal Order.	Corrective Action(s) have been completed.		Completed 6/4/2010
Main Gate *	Trespasser on foot can enter site through gap between gates	Replace gates, old gates could not be realigned to close gap to prevent trespassers on foot from entering site	Main gate has been repaired		Completed 6/14/2010
Southwest Gate *	Trespasser on foot can enter site through gap between bottom of the center of the gate and the soil	Fill in area under center and place barrier on smelter side of fence	Corrective Action(s) have been completed.		Completed 7-7-10
East fence near SE corner *	Trespasser on foot can enter site through hole in fence	Liberty Fence to repair hole in fence	Corrective Action(s) have been completed.	Repairs to start 6/14/2010, weather permitting	Completed 6/14/10
Gate to Natural Gas Meters on south fence line *	Trespasser on foot can potentially enter site through broken gate, albeit with some difficulty.	Liberty fence to repair broken gate.	Corrective Action(s) have been completed.	Repairs to start 6/14/10, weather permitting	Completed 6/15/10

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Lighting	Trespassers on the site can move about most of the site without being seen neither on the cameras nor from the surrounding roads due to poor illumination. Also creates a dangerous situation at night for employees and/or law enforcement officers searching the site for trespassers.	<p>Obtain cost estimates for activation of existing lights along perimeter of smelter site based on having at least the following illumination of the smelter site:</p> <p>1 light at each corner, 2 lights along north fence line, 3 lights along east fence line, 2 lights along south fence line, 2 lights along east fence line, and continued illumination of parking lot, entrance and SW portion of the smelter site.</p> <p>Also, 1 light at east gate</p>	<p>a. Work has been completed along the south, and west fence line, parking lot area, and half of the north fence area.</p> <p>b. Added 3-lights on the north fence line, and 2-lights along the south fence line. Repaired lights in parking lot area.</p> <p>c. Replaced various sections of lighting wiring.</p> <p>d. No changes to report, waiting for dry weather to complete work.</p> <p>e. Over the next few weeks, power will be shut off to complete the work around the AAF area. Power Generators will be used to supply power.</p> <p>f. Currently assessing the type and size of generators required to generate the necessary power.</p> <p>g. The Estate met with Securitas personnel to discuss security patrol for when main power is temporarily shutdown during work in AAF area.</p> <p>h. The power has been shut off. Perimeter lighting is shut off. Additional security has been added to monitor the site.</p> <p>i. No Changes to report</p> <p>j. It appears that trespassers entered the site on 1-25-11 based on observation of footprints in the snow. The Estate has met with Securitas personnel to modify the frequency of security patrol on site.</p>	<p>Estimate 45-60 days to complete assessment, evaluation, and repair and replace wiring and lighting.</p> <p>12-2-03 Power shut-off</p>	

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
East fence line *	No fence along ~40 feet of eastern fence line where slag piles have covered old fence line. Slag piles do present significant obstacles to trespassers on foot entering the site except for gap in middle of fence line.	Install new fence along this section of the east fence line. Getting more estimates for repair. Obtained bid from Liberty Fence.	Corrective Action(s) have been completed.		Completed June 24, 2010. Completed September 8, 2010.
Vegetation along fence lines *	Heavy vegetation along smelter fence line can provide concealment of trespassers as well as large trees growing next to fence line could provide access to smelter site.	Remove heavy vegetation to provide unobstructed observation of fence lines from surrounding roads and prevent use of trees as access to the site. Use our excavator to scrape away vegetation.	a. Mowing has been completed, due to wet conditions; weed control has not been completed. b. No changes to report	Mowing completed on 6-22-2010	On going preventative maintenance control

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Cameras	Surveillance of site with cameras (connected to internet for viewing) only covers the SW portion of the site including the parking lot. Additional coverage of site (i.e. north and east fence lines) requires good illumination and additional cameras.	Provide good illumination of remainder of site (See Item. <i>Lighting</i> , above) and then determine number and location of any additional cameras.	<p>a) Camera representative on site July 1, 2010 to troubleshoot camera conditions.</p> <p>b) Camera representative able to repair one of three non -operable cameras. Site now has 9 cameras in working conditions. Estate assessing repair/replacement cost for remaining cameras.</p> <p>c) Camera near the front of the building failed. Camera assessment in progress</p> <p>d) Camera #5 located near the foundry building failed. Camera assessment in progress</p> <p>e) The Estate met with Securitas personnel to discuss the increase of security patrol for when the main power is temporarily shutdown.</p> <p>f).The power has been shut off Cameras have been shut off. Additional security has been added to monitor the site</p> <p>g) No changes to report</p> <p>h) It appears that trespassers entered the site on 1-25-11 based on observation of footprints in the snow. The Estate has met with Securitas personnel to modify the frequency of security patrol on site</p> <p>On 1-31-11 at 1:45 am, Securitas personnel heard noises inside the foundry building, and saw someone running out when the vehicle lights shined inside the building. The sheriff was called and a report was filed. It appears that the change of frequency patrol is working.</p> <p>No Changes to Report</p>	Depends on the number of cameras that may need repair and/or replacement.	

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Alarm Systems	Despite current alarm systems on offices, mobile/storage building, brick shop, and Tank House trespassing and vandalism continue at site.	Increase security of site to prevent trespassing and vandalism by having security guards at night.	<p>Current alarm systems are properly functioning and since security guards have been on site (started 5/14/2010) no instances of trespassing or vandalism have been reported.</p> <p>The alarm system will be temporarily turned off when the main power is shutdown. The Estate met with Securitas personnel to discuss additional security patrol.</p> <p>The power has been shut off. Additional security has been added to monitor the site</p> <p>The alarm system for the Brick house Building will be temporarily disabled until power is restored to the Site.</p> <p>It appears that trespassers entered the site on 1-25-11 based on observation of footprints in the snow. The Estate has met with Securitas personnel to modify the frequency of security patrol on site.</p>	Complete	Complete

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Coordination with local police and emergency personnel	<p>a. Local police responding to trespassers and emergency responders do not have immediate access to the site outside of business days when Estate employees are on site.</p> <p>b. Emergency responders and law enforcement need to be familiar with the site in order to carry out their responsibilities and assist the Estate.</p>	<p>a. Make access to site available to police and emergency responders.</p> <p>b. Conduct a familiarization visit for the emergency responders and law enforcement and address issues concerning exposure to hazardous materials and unsafe conditions on the site.</p> <p>c. Jorge to create brief memorandum to summarize upcoming activities and refer them to contingency plan.</p> <p>NOTE: The Estate annually submits to these groups our current Contingency Plan and Emergency Procedures in accordance with EPCRA. This was last done on February 19, 2010 by certified mail.</p>	<p>a. Corrective Action(s) have been completed. No changes to report.</p>	<p>a</p> <p>b) TBD sometime by end of August</p> <p>c) Estimate completion by 8-5-2010</p>	<p>Complete</p> <p>d) Completed 8-5-2010</p>

Note: Shaded areas and blue font have been completed.

Estate of Chemetco, Inc.
Security Plan and Status of Action Items
Monthly Report April 29, 2011

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Signage	a. Seal Order sign at entrance is not readily visible to those entering the site via the parking lot. b. Smelter site and surrounding property in Seal Order have little to no "No Trespassing Signs."	a. Relocate Seal Order sign along with a No Trespassing sign at entrance to make it immediately visible to anyone entering parking lot. b. Place bilingual "No Trespassing" signs strategically around smelter site and along boundary of surrounding property in Seal Order.	Corrective Action(s) have been completed.		Completed 6/4/2010
Main Gate *	Trespasser on foot can enter site through gap between gates	Replace gates, old gates could not be realigned to close gap to prevent trespassers on foot from entering site	Main gate has been repaired		Completed 6/14/2010
Southwest Gate *	Trespasser on foot can enter site through gap between bottom of the center of the gate and the soil	Fill in area under center and place barrier on smelter side of fence	Corrective Action(s) have been completed.		Completed 7-7-10
East fence near SE corner *	Trespasser on foot can enter site through hole in fence	Liberty Fence to repair hole in fence	Corrective Action(s) have been completed.	Repairs to start 6/14/2010, weather permitting	Completed 6/14/10
Gate to Natural Gas Meters on south fence line *	Trespasser on foot can potentially enter site through broken gate, albeit with some difficulty.	Liberty fence to repair broken gate.	Corrective Action(s) have been completed.	Repairs to start 6/14/10, weather permitting	Completed 6/15/10

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
East fence line *	No fence along ~40 feet of eastern fence line where slag piles have covered old fence line. Slag piles do present significant obstacles to trespassers on foot entering the site except for gap in middle of fence line.	Install new fence along this section of the east fence line. Getting more estimates for repair. Obtained bid from Liberty Fence.	Corrective Action(s) have been completed.		Completed June 24, 2010. Completed September 8, 2010.
Vegetation along fence lines *	Heavy vegetation along smelter fence line can provide concealment of trespassers as well as large trees growing next to fence line could provide access to smelter site.	Remove heavy vegetation to provide unobstructed observation of fence lines from surrounding roads and prevent use of trees as access to the site. Use our excavator to scrape away vegetation.	<ul style="list-style-type: none"> a. Mowing has been completed, due to wet conditions; weed control has not been completed. b. No changes to report 	Mowing completed on 6-22-2010	On going preventative maintenance control

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Cameras	Surveillance of site with cameras (connected to internet for viewing) only covers the SW portion of the site including the parking lot. Additional coverage of site (i.e. north and east fence lines) requires good illumination and additional cameras.	Provide good illumination of remainder of site (See Item. <i>Lighting</i> , above) and then determine number and location of any additional cameras.	<p>a) Camera representative on site July 1, 2010 to troubleshoot camera conditions.</p> <p>b) Camera representative able to repair one of three non -operable cameras. Site now has 9 cameras in working conditions. Estate assessing repair/replacement cost for remaining cameras.</p> <p>c) Camera near the front of the building failed. Camera assessment in progress</p> <p>d) Camera #5 located near the foundry building failed. Camera assessment in progress</p> <p>e) The Estate met with Securitas personnel to discuss the increase of security patrol for when the main power is temporarily shutdown.</p> <p>f).The power has been shut off Cameras have been shut off. Additional security has been added to monitor the site</p> <p>g) No changes to report</p> <p>h) It appears that trespassers entered the site on 1-25-11 based on observation of footprints in the snow. The Estate has met with Securitas personnel to modify the frequency of security patrol on site</p> <p>On 1-31-11 at 1:45 am, Securitas personnel heard noises inside the foundry building, and saw someone running out when the vehicle lights shined inside the building. The sheriff was called and a report was filed. It appears that the change of frequency patrol is working.</p> <p>No Changes to Report</p>	Depends on the number of cameras that may need repair and/or replacement.	

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Alarm Systems	Despite current alarm systems on offices, mobile/storage building, brick shop, and Tank House trespassing and vandalism continue at site.	Increase security of site to prevent trespassing and vandalism by having security guards at night.	<p>Current alarm systems are properly functioning and since security guards have been on site (started 5/14/2010) no instances of trespassing or vandalism have been reported.</p> <p>The alarm system will be temporarily turned off when the main power is shutdown. The Estate met with Securitas personnel to discuss additional security patrol.</p> <p>The power has been shut off. Additional security has been added to monitor the site</p> <p>The alarm system for the Brick house Building will be temporarily disabled until power is restored to the Site.</p> <p>It appears that trespassers entered the site on 1-25-11 based on observation of footprints in the snow. The Estate has met with Securitas personnel to modify the frequency of security patrol on site.</p>	Complete	Complete

Item, updated items are highlighted	Problem	Corrective Action(s)	Current Status	Proposed Completion Date	Actual Completion Date
Coordination with local police and emergency personnel	<p>a. Local police responding to trespassers and emergency responders do not have immediate access to the site outside of business days when Estate employees are on site.</p> <p>b. Emergency responders and law enforcement need to be familiar with the site in order to carry out their responsibilities and assist the Estate.</p>	<p>a. Make access to site available to police and emergency responders.</p> <p>b. Conduct a familiarization visit for the emergency responders and law enforcement and address issues concerning exposure to hazardous materials and unsafe conditions on the site.</p> <p>c. Jorge to create brief memorandum to summarize upcoming activities and refer them to contingency plan.</p> <p>NOTE: The Estate annually submits to these groups our current Contingency Plan and Emergency Procedures in accordance with EPCRA. This was last done on February 19, 2010 by certified mail.</p>	<p>a. Corrective Action(s) have been completed. No changes to report.</p>	<p>a</p> <p>b) TBD sometime by end of August</p> <p>c) Estimate completion by 8-5-2010</p>	<p>Complete</p> <p>d) Completed 8-5-2010</p>

Note: Shaded areas and blue font have been completed.

Estate of Chemetco, Inc.

3754 Chemetco Lane • Hartford, IL 62048
Office: (618) 254-4381 x372 • Fax: (618) 254-0138
jgarcia@chemetcoestate.com

May 27, 2011

Michelle Kerr
Attn: SR-6J
Remedial Project Manager
US EPA Region 5 Superfund Division
77 W. Jackson Blvd. SRF 6J
Chicago, IL 60604

Re: Tentative Schedule to Restore Security Plan Measures at the Estate of Chemetco Facility

Dear Mrs. Kerr:

On behalf of the Estate of Chemetco, Inc. (Estate), I am submitting this letter as part of the "Security Plan and Action Items" monthly reports. As you requested, the Estate is providing a tentative schedule (see enclosed attachment) to restore the security conditions that were in place prior to the beginning of demolition activities and prior to cutting electric power off.

As you're well aware off, electric power had to be shut off and the transformers disconnected in order to complete demolition activities at the AAF area and Foundry Building. To date, the Site is operating during working hours with the support of temporary/portable generators.

The actual start up date to resume demolition activities is unknown at this time; as such adjustments to tentative schedule will be revised when demolition activities resume. The Estate's plan to address the security items as follows:

Demolition Activities

Demolition activities were shutdown on January 17, 2011 of the 1st Quarter 2011, but are expected to resume in the upcoming weeks.

After demolition activities resume, the estimated time to complete the demolition work covered by the approved Demolition Plan should be approximately 2-3 months.

Site Power

Power was shut off and disconnected in anticipation of demolishing the foundry building. Currently power is temporarily provided by the use of generators. These generators run on diesel and currently are being used during normal working hours or longer when needed on a limited basis due to the high cost of diesel fuel.

Power will continue to be shut down until all the demolition activities are completed. After completion of demolition activities, power will be restored, and conduit electrical lines will need to be rewired for the future process units located in the tank house and maintenance shop building. Estimated time to complete rewiring and power restoration is approximately 2-3 months after completion of demolition activities under the approved Demolition Plan

Lighting

The existing lights that were in place prior to demolition will continue to be used. It is possible that location of lights may need to be adjusted and/or rewired.

Estimated time to tie existing wiring to new power source (transformer) is approximately 1-2 weeks.

Gates

Existing gates and signage are properly set in place. No changes and/or modifications are required.

Security Cameras

The existing cameras that were in place prior to demolition will be used. The security cameras will require tie in to new power and trouble shooting to ensure they are working properly after being down for a period of time. Prior to power shutdown, a couple of security camera were not functioning properly.

Estimated time to tie to new power source (transformer) and troubleshoot cameras is approximately 2-4 weeks.

Alarm System

No changes were made to the existing alarm system. No changes and/or modifications are required.

Vegetation Perimeter Up keeping.

No changes were made to up keeping of vegetation perimeter. Up keeping of vegetation to continue periodically as needed and/or warranted. No changes and/or modifications are required.

On-Site Security

When the electric power was shut off, the Estate increased on-site security by adding an additional security guard and an additional shift to compensate for not having available the use of security cameras and lighting. Upon restoring electric power and above items, the Estate plans to restore site security to one shift and one security guard.

Estimated time to switch back from two shifts and two security guards to a single shift and one security guard is approximately 1-2 days.

Coordination with local police/ emergency personnel

Continue submitting Contingency plans to local police and emergency personnel on an annual basis. No changes required at this time.

The Status of Action Items will be updated and continue to be issued on a monthly basis until all security related items have been resolved. If you have any questions and/or comments, please feel free to contact me at (618) 254-4381 x372, or my cell phone at (314) 348-8211.

Sincerely,
ESTATE OF CHEMETCO, INC.



Jorge Y. Garcia PG
Project Coordinator/EH&S Manager

Attachments

CC: Donald M. Samson, Trustee
Penni S. Livingston, Livingston Law Firm
Elliott Stegin, IAD
Chris Cahnovsky, IEPA-Collinsville
Erin Rednour, IEPA-Springfield
James Morgan, IAGO

Tentative Schedule to Restore Security Plan Measures at the Estate of Chemetco Facility

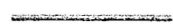
ID		Task Name	Duration	Start	3rd Quarter			4th Quarter			1st Quarter			2nd Quarter		
					Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12
1		Demolition Activities	75 days	Mon 6/6/11												
2		Site Security	180 days	Mon 5/23/11												
3		Restore Power	75 days	Fri 9/16/11												
4		Lighting	10 days	Fri 12/30/11												
5		Gates	1 day	Fri 9/16/11												
6		Re-establish Security Cameras	20 days	Thu 12/29/11												
7		Vegetation Up keeping	90 days	Mon 6/6/11												
8		On site Security	2 days	Mon 12/26/11												
9		Alarm System	1 day	Mon 12/26/11												
10		Coordination with local police and emergency personnel	1 day	Mon 6/27/11												

Estate of Chemetco
Date: Fri 5/27/11

Task

Split

Progress



Milestone

Summary

Project Summary



External Tasks

External Milestone

Deadline



Estate of Chemetco, Inc.

3754 Chemetco Lane • Hartford, IL 62048
Office: (618) 254-4381 x372 • Fax: (618) 254-0138
jgarcia@chemetcoestate.com

June 30, 2011

Michelle Kerr
Attn: SR-6J
Remedial Project Manager
US EPA Region 5 Superfund Division
77 W. Jackson Blvd. SRF 6J
Chicago, IL 60604

Re: Security Plan and Monthly Security Action Items Letter Report

Dear Mrs. Kerr:

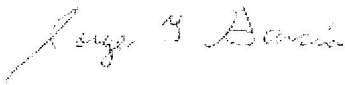
On behalf of the Estate of Chemetco, Inc. (Estate), I am submitting the June Security Plan and Monthly Security Action Items letter report. The previous letter report was submitted on May 27, 2011.

A Kick-off Meeting to resume demolition activities was held on June 22, 2011. Demolition activities are tentatively scheduled to resume after the 4th of July, 2011. The AIS, the demolition subcontractors is in the process of putting together a proposed work schedule that will outline the completion of the demolition activities.

When the Estate receives a copy of the schedule, we will incorporate the timeline schedule and update our schedule to reflect the estimated time to restore the security action items that were described in last month's report. There were no Action Items to report for the month of June. The next monthly report is due by July 29, 2011.

The Status of Action Items will be updated and continue to be issued on a monthly basis until all security related items have been resolved. If you have any questions and/or comments, please feel free to contact me at (618) 254-4381 x372, or my cell phone at (314) 348-8211.

Sincerely,
ESTATE OF CHEMETCO, INC.



Jorge Y. Garcia PG
Project Coordinator/EH&S Manager

CC: Donald M. Samson, Trustee
Penni S. Livingston, Livingston Law Firm
Elliott Stegin, IAD
Chris Cahnovsky, IEPA-Collinsville
Erin Rednour, IEPA-Springfield
James Morgan, IAGO